

# Author Index

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### KEY TO ABBREVIATIONS USED FOR ARTICLE CLASSIFICATION

* = Original Article	ET = Ethics in	PP = President's Page
AB = Abstract	Cardiothoracic Surgery	RE = Report
AN = Announcement	HW = How to Do It	RV = Review of Recent
CP = Correspondence	IC = Invited Commentary	Books
CR = Case Report	IM = Images in	SH = Our Surgical Heritage
CV = Current Review	Cardiothoracic Surgery	SP = Statistician's Page
DI = Discussion	KR = Key References	TR = Tribute
ED = Editorial	NT = New Technology	UP = Update
ER = Erratum	PA = Presidential Address	

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### KEY TO ABBREVIATIONS USED FOR ARTICLE CLASSIFICATION

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* = Original Article	ET = Ethics in	PP = President's Page
AB = Abstract	Cardiovascular Surgery	RE = Report
AN = Announcement	HW = How to Do It	RV = Review of Recent
CP = Correspondence	IC = Invited Commentary	Books
CR = Case Report	IM = Images in	SH = Our Surgical Heritage
CV = Current Review	Cardiothoracic Surgery	SP = Statistician's Page
DI = Discussion	KR = Key References	TR = Tribute
ED = Editorial	NT = New Technology	UP = Update
ER = Erratum	PA = Presidential Address	

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Giant anastomotic pseudoaneurysm complicating aortic xenograft replacement (Kucher, Kipfer, & others) 2004;77:2197-9, CR

Initial experience with sutureless proximal anastomoses performed with a mechanical connector leading to clampless off-pump coronary artery bypass surgery (Katariya, Yassin, & others) 2004;77:563-8\*; Discussion (Horvath, Katariya, & others) 2004;77:567-8, DI

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Ascending aortic aneurysm, coarctation of the aortic isthmus and hypoplastic aortic arch: simultaneous treatment through sternotomy (Carrel & Berdat) 2004;77:1463, IM

Circulatory arrest for repair of postcoarctation site aneurysm (Kang, Clarke, & others) 2004;77:2029-33\*

Delayed rupture of a postinfarction left ventricular true aneurysm (Arsan, Akgun, & others) 2004;77:1813-5, CR

Endovascular stent grafting for rupture of a thoracoabdominal aortic aneurysm after replacement of the entire aorta (Hachiro, Harada, & others) 2004;77:1101, IM

Increased border-zone stress in bulging ventricular aneurysm (Jackson, Gorman, & Gorman) 2004;77:1876, CP; Reply (Bartel) 2004;77:1876-7

Left atrial appendage aneurysm in a child (Tanoue, Kado, & others) 2004;77:721-3, CR

Left heart bypass during descending thoracic aortic aneurysm repair does not reduce the incidence of paraplegia (Coselli, LeMaire, & others) 2004;77:1298-1303\*; Discussion (Sundt, Coselli, & others) 2004;77:1303, DI

Man with saphenous vein graft aneurysms after bypass surgery (Williams, Rampersaud, & Wolfe) 2004;77:1815-7, CR

Minimal invasive endoscopic resection of a giant left atrial appendage aneurysm (Kiaii, Doll, & others) 2004;77:1437-8, CR

New access to facilitate endovascular repair of descending aorta aneurysms (Minale, Cappiello, & others) 2004;77:1445-7, CR

Pinhole rupture of aortic root aneurysm with severe atherosclerotic change (Sako, Hadama, & others) 2004;77:1075-7, CR

Simplified thoracic aortic aneurysm repair (Pocar, Fundaro, & Donatelli) 2004;77:2199-2200, CR

Successful repair of aberrant right subclavian artery aneurysm combined with bicuspid aortic valve through a median sternotomy (Kono, Kitahara, & others) 2004;77:2196-7, CR

Successful salvage of inferior vena cava rupture during reoperative repair for ascending aortic aneurysm (Chen & Hsieh) 2004;77:715-8, CR

Surgery for aortic root aneurysm in children: a 21-year experience in 50 patients (Cattaneo, Bethea, & others) 2004;77:168-76\*; Discussion (Miller, Kouchoukos, & others) 2004;77:175-6, DI

Thoracic aortic emergencies: impact of endovascular surgery (Iannelli, Piscione, & others) 2004;77:591-6\*

Thoracoabdominal aortic aneurysm repair through redo left-sided thoracotomy (Kawaharada, Morishita, & others) 2004;77:1304-8\*

**Angiogenesis**

Induction of pulmonary angiogenesis by adenoviral-mediated gene transfer of vascular endothelial growth factor (Lambert, Michel, & others) 2004;77:458-63\*; Invited Commentary (Friebs & del Nido) 2004;77:463, IC

Promoting angiogenesis protects severely hypertrophied hearts from ischemic injury (Friebs, Moran, & others) 2004;77:2004-11\*; Invited Commentary (Kocica) 2004;77:2011, IC

Therapeutic angiogenesis in chronically ischemic porcine myocardium: comparative effects of bFGF and VEGF (Hughes, Biswas, & others) 2004;77:812-8\*

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Isotropic half-millimeter angiography of coronary artery bypass grafts with 16-slice computed tomography (Dewey, Lembcke, & others) 2004;77:800-4\*

Skeletonization of gastroepiploic artery graft in off-pump coronary artery bypass grafting: early clinical and angiographic assessment (Kamiya, Watanabe, & others) 2004;77:2046-50\*

**Angioplasty**

Autologous patch angioplasty of the left main coronary artery in a pediatric patient: 7-year follow-up (Anagnostopoulos, Pigula, & others) 2004;77:1457-9, CR

Experimental study of surgical ultrasonic angioplasty: its effect on atherosclerosis and normal arteries (Chikada) 2004;77:243-6\*

**Angiopietin-1**

New animal model for pulmonary hypertension based on the overexpression of a single gene, angiotensinogen-1 (Chu, Sullivan, & others) 2004;77:449-57\*; Invited Commentary (Videm) 2004;77:456-7, IC

**Animal models**

See also Porcine models



- Bovine glue (BioGlue) is catabolized by enzymatic reaction in the vascular dog model (Van Belleghem, Forsyth, & others) 2004;77:2177-82, NT; Invited Commentary (Wolner & Ehrlich) 2004;77:2181-2, IC
- Contegra bovine jugular vein right ventricle to pulmonary artery conduit in Ross procedure (Purohit, Kitchiner, & Pozzi) 2004;77:1707-10\*
- New animal model for pulmonary hypertension based on the overexpression of a single gene, angiopoietin-1 (Chu, Sullivan, & others) 2004;77:449-57\*; Invited Commentary (Videm) 2004;77:456-7, IC
- Preclinical assessment of a trileaflet mechanical valve in the mitral position in a calf model (Gregoric, Conger, & others) 2004;77:196-202\*
- Trigger for intercellular adhesion molecule-1 expression in rat lungs transplanted from non-heart-beating donors (Egan, Thomas, & others) 2004;77:1048-55\*; DI (Jones & Schrumpp) 2004;77:1055, DI
- Annuloaortic ectasia**
- Pinhole rupture of aortic root aneurysm with severe atherosclerotic change (Sako, Hadama, & others) 2004;77:1075-7, CR
- Annuloplasty**
- Overlapping annuloplasty of the mitral valve in children (Pretre, Kadner, & others) 2004;77:1857-9, HW
- Semirigid partial annuloplasty band allows dynamic mitral annular motion and minimizes valvular gradients: an echocardiographic study (Sharony, Saunders, & others) 2004;77:518-22\*; Invited Commentary (Gorman & Gorman) 2004;77:522, IC
- Anoxic spell**
- Coronary artery obstruction due to membranous ridge of the right sinus Valsalva associated with tetralogy of Fallot: syncope mimics anoxic spell (Shiraishi, Yamagishi, & others) 2004;77:321-2, CR
- Anticoagulant antibodies**
- Thrombosis of aortic valve homograft associated with lupus anticoagulant antibodies (Unger, Plein, & others) 2004;77:312-4, CR
- Anticoagulation**
- Failure of argatroban anticoagulation during off-pump coronary artery bypass surgery (Cannon, Butterworth, & others) 2004;77:711-3, CR
- Antifreeze proteins**
- Prolonged 24-hour subzero preservation of heterotopically transplanted rat hearts using antifreeze proteins derived from arctic fish (Amir, Rubinsky, & others) 2004;77:1648-55\*; Discussion (Del Nido, Amir, & others) 2004;77:1654-5, DI
- Aorta**
- See also Ascending aorta; Coarctation of the aorta; Descending aorta; Thoracic aorta
- Unusual ectopic calcification in the aorta (Fukui, Takanashi, & others) 2004;77:1848, IM
- Aortic aneurysms**
- Ascending aortic aneurysm, coarctation of the aortic isthmus and hypoplastic aortic arch: simultaneous treatment through sternotomy (Carrel & Berdat) 2004;77:1463, IM
- Endovascular stent grafting for rupture of a thoracoabdominal aortic aneurysm after replacement of the entire aorta (Hachiro, Harada, & others) 2004;77:1101, IM
- Left heart bypass during descending thoracic aortic aneurysm repair does not reduce the incidence of paraplegia (Coselli, LeMaire, & others) 2004;77:1298-1303\*; Discussion (Sundt, Coselli, & others) 2004;77:1303, DI
- New access to facilitate endovascular repair of descending aorta aneurysms (Minale, Cappiello, & others) 2004;77:1445-7, CR
- Simplified thoracic aortic aneurysm repair (Pocar, Fundaro, & Donatelli) 2004;77:2199-2200, CR
- Thoracic aortic emergencies: impact of endovascular surgery (Iannelli, Piscione, & others) 2004;77:591-6\*
- Thoracoabdominal aortic aneurysm repair through redo left-sided thoracotomy (Kawaharada, Morishita, & others) 2004;77:1304-8\*
- Aortic arch**
- Ascending aortic aneurysm, coarctation of the aortic isthmus and hypoplastic aortic arch: simultaneous treatment through sternotomy (Carrel & Berdat) 2004;77:1463, IM
- Cerebral autoregulation after hypothermic circulatory arrest in operations on the aortic arch (Neri, Sassi, & others) 2004;77:72-80\*; Invited Commentary (LeMaire) 2004;77:79-80, IC
- Is extended arch aortoplasty the operation of choice for infant aortic coarctation? Results of 15 years' experience in 181 patients (Wood, Javadpour, & others) 2004;77:1353-8\*; Discussion (Lacour-Gayet, Mavroudis, & others) 2004;77:1357-8, DI
- Repair of stab-wound laceration of the aortic arch using deep hypothermia and circulatory arrest (Seitelberger, Bialy, & Rajek) 2004;77:703-4, CR
- Separate grafts or en bloc anastomosis for arch vessels reimplantation to the aortic arch (Di Eusanio, Schepens, & others) 2004;77:2021-8\*
- Surgical treatment of five patients with aortobronchial fistula in the aortic arch (Nishizawa, Matsumoto, & others) 2004;77:1821-3, CR
- Aortic arch replacement**
- Technical advances in total aortic arch replacement (Strauch, Spielvogel, & others) 2004;77:581-90\*; Discussion (Kazui, Vogel, & others) 2004;77:589-90, DI
- Aortic connectors**
- Skeletonized radial artery graft with the St. Jude Medical Symmetry Bypass System (aortic connector system) (Watanabe, Takemura, & others) 2004;77:1550-2\*; Invited Commentary (Eckstein) 2004;77:1552, IC
- Aortic dissection**
- Acute dissection of the descending aorta: noncommunicating versus communicating forms (Srichai, Lieber, & others) 2004;77:2012-20\*; Invited Commentary (Dion) 2004;77:2020, IC
- Acute type B aortic dissection in elderly patients: clinical features, outcomes, and simple risk stratification rule (Mehta, Bossone, & others) 2004;77:1622-9\*; Invited Commentary (Gott) 2004;77:1629, IC
- Congenital pericardial defect associated with ruptured type A aortic dissection (Matsuda, Marumoto, & others) 2004;77:1069-70, CR
- Iatrogenic iliac artery rupture and type A dissection after endovascular repair of type B aortic dissection (Modine, Lions, & others) 2004;77:317-9, CR
- Lethal thrombus in the carotid artery during operation for acute aortic dissection with cerebral malperfusion (Imanaka, Nishimura, & others) 2004;77:1448-9, CR
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Partial pericardial defect associated with ruptured aortic dissection of the ascending aorta: a rare feature presenting severe left hemothorax without cardiac tamponade (Nakajima, Tsuchiya, & others) 2004;77:1066-8, CR

Primary lung tumor mimicking acute type A aortic dissection (Sonker, Peel, & others) 2004;77:1841-3, CR

Successful treatment of ascending aortic graft infection after operation for acute aortic dissection with peripheral malperfusion (Kato, Imanaka, & others) 2004;77:2194-5, CR

**Aortic insufficiency**

Marfan syndrome as a predisposing factor for traumatic aortic insufficiency (Onorati, De Santo, & others) 2004;77:2192-4, CR

**Aortic pseudoaneurysms**

Transfemoral control of ruptured aortic pseudoaneurysm at aortic root reoperation (Pettersson, Nores, & Gillinov) 2004;77:311-2\*, CR

**Aortic root**

Further insights into normal aortic valve function role of a compliant aortic root on leaflet opening and valve orifice area (Sripathi, Kumar, & Balakrishnan) 2004;77:844-51\*

**Aortic root aneurysm**

Pinhole rupture of aortic root aneurysm with severe atherosclerotic change (Sako, Hadama, & others) 2004;77:1075-7, CR

Surgery for aortic root aneurysm in children: a 21-year experience in 50 patients (Cattaneo, Bethea, & others) 2004;77:168-76\*; Discussion (Miller, Kouchoukos, & others) 2004;77:175-6, DI

**Aortic root reconstruction**

Evaluation of native valve-sparing aortic root reconstruction with direct imaging and reimplantation or remodeling? (Furukawa, Ohteki, & others) 2004;77:1636-41\*

**Aortic root replacement**

Giant anastomotic pseudoaneurysm complicating aortic xenograft replacement (Kucher, Kipfer, & others) 2004;77:2197-9, CR

**Aortic stenosis**

Role of oral bacterial flora in calcific aortic stenosis: an animal model (Cohen, Malave, & others) 2004;77:537-43\*

Role of transvalvular gradient in outcome from valve replacement for aortic stenosis (Weerasinghe, Yusuf, & others) 2004;77:1266-71\*

**Aortic surgery**

Tau protein in the cerebrospinal fluid is a marker of brain injury after aortic surgery (Shiia, Kuniyama, & others) 2004;77:2034-8\*

**Aortic valve**

Congenitally bicuspid aortic valve: how does it function? Why does it fail? (Robicsek, Thubrikar, & others) 2004;77:177-85\*; Discussion (Galstyan, Shumway, & others) 2004;77:184-5, DI

Elective surgery for fibroelastoma of the aortic valve (Koolbergen, Voigt, & others) 2004;77:725, IM

Further insights into normal aortic valve function role of a compliant aortic root on leaflet opening and valve orifice area (Sripathi, Kumar, & Balakrishnan) 2004;77:844-51\*

Is a bicuspid aortic valve a risk factor for adverse outcome after an autograft procedure? (Bogers, Kappetein, & others) 2004;77:1998-2003\*

Midterm results of aortic valve repair with the pericardial cusp extension technique in rheumatic valve disease (Bozbuga, Erentug, & others) 2004;77:1272-6\*

**Aortic valve calcification**

Role of *Bartonella henselae* endocarditis in the nucleation of aortic valvular calcification (Ghidoni) 2004;77:704-6, CR

**Aortic valve homograft**

Left main stem patch plasty and aortic root homograft in Takayasu's disease (Matteucci, Iacone, & others) 2004;77:314-7, CR

Thrombosis of aortic valve homograft associated with lupus anticoagulant antibodies (Unger, Plein, & others) 2004;77:312-4, CR

**Aortic valve replacement**

See also Valve replacement

Aortic valve replacement in a patient with a patent internal thoracic artery graft (Ueda, Kawata, & others) 2004;77:718-20, CR

Coronary ostial enlargement to prevent stenosis after prosthetic aortic valve replacement (Santini, Pentiricci, & others) 2004;77:1854-6, HW

Role of transvalvular gradient in outcome from valve replacement for aortic stenosis (Weerasinghe, Yusuf, & others) 2004;77:1266-71\*

Usefulness of a multidetector-row computed tomography scanner for detecting pannus formation (Teshima, Hayashida, & others) 2004;77:523-6\*

**Aortic valve surgery**

Multivariable prediction of in-hospital mortality associated with aortic and mitral valve surgery in northern New England (Nowicki, Birkmeyer, & others) 2004;77:1966-77\*

**Aortobronchial fistula**

Surgical treatment of five patients with aortobronchial fistula in the aortic arch (Nishizawa, Matsumoto, & others) 2004;77:1821-3, CR

**Aortoesophageal fistula**

Diagnosis and management of aortoesophageal fistula caused by a foreign body (Sica, Djapardj, & others) 2004;77:2217-8, CR

**Aortoplasty**

Composite aortoplasty for recurrent coarctation after neonatal repair in Williams syndrome (Marks, Mitchell, & others) 2004;77:319-21, CR

Is extended arch aortoplasty the operation of choice for infant aortic coarctation? Results of 15 years' experience in 181 patients (Wood, Javadpour, & others) 2004;77:1353-8\*; Discussion (Lacour-Gayet, Mavroudis, & others) 2004;77:1357-8, DI

**Aortopulmonary window**

Surgical management of aortopulmonary window and associated lesions (Erez, Dagan, & others) 2004;77:484-7\*

**Apoptosis**

Acidosis-induced apoptosis in human and porcine heart (Thatte, Rhee, & others) 2004;77:1376-83\*

Oncosis rather than apoptosis? (Sayk & Bartels) 2004;77:382, CP; Reply (Schmitt) 2004;77:382-3

**Aprotinin**

Cost analysis of aprotinin for coronary artery bypass patients: analysis of the randomized trials (Smith, Datta, & others) 2004;77:635-43\*; Invited Commentary (Shore-Lesserson, Reich, & Adams) 2004;77:642-3, IC

Effects of nafamostat mesilate and minimal-dose aprotinin on blood-foreign surface interactions in cardiopulmonary bypass (Kaminishi, Hiramatsu, & others) 2004;77:644-50\*

**Argatroban**

Failure of argatroban anticoagulation during off-pump coronary artery bypass surgery (Cannon, Butterworth, & others) 2004;77:711-3, CR



### Arrhythmias

*See also specific arrhythmia*

Early and late arrhythmias in patients in preoperative sinus rhythm after superior septal approach (Misawa & Kaminishi) 2004;77:2259, CP; Reply (Gaudino & Possati) 2004;77:2259

### Arrow International CorAide left ventricular assist system

Preclinical readiness testing of the Arrow International CorAide left ventricular assist system (Doi, Golding, & others) 2004;77:2103-10\*

### Arterial conduits

Reduced strokes in the elderly: the benefits of untouched aorta off-pump coronary surgery (Lev-Ran, Loberman, & others) 2004;77:102-7\*

### Arterial grafts

Mid-term structural change in the radial artery grafts after coronary artery bypass grafting (Hagiwara, Ito, & others) 2004;77:805-11\*; Invited Commentary (He) 2004;77:810-1, IC

Off-pump coronary artery bypass grafting using arterial grafts exclusively: aiming for an absolute "no-touch" aortic technique (Chavanon, Abdennadher, & Blin) 2004;77:379-80, CP; Reply (Bellomo, Haase, & others) 2004;77:380-1

Optimizing use of the Octopus system for off-pump total arterial myocardial revascularization with the TY graft (Vicol, Nollert, & others) 2004;77:731-3

Patencies of 2,127 arterial to coronary conduits over 15 years (Tatoulis, Buxton, & Fuller) 2004;77:93-101\*; Discussion (Kitamura & Tatoulis) 2004;77:101, DI

### Arterial patch

Use of autologous arterial patches for tracheal reconstruction in young infants (Hazekamp & Nijdam) 2004;77:2262-3, CP; Reply (Martinod, Azorin, & others) 2004;77:2263

### Arterial revascularization

Long-term follow-up of coronary artery bypass grafting in three-vessel disease using exclusive pedicled bilateral internal thoracic and right gastroepiploic arteries (Tavilla, Kappetein, & others) 2004;77:794-9\*; Invited Commentary (Taggart) 2004;77:799, IC

### Arterial switch operation

Results of arterial switch operation for primary total correction of the Taussig-Bing anomaly (Wetter, Sinzobahamvya, & others) 2004;77:41-7\*; Invited Commentary (Comas) 2004;77:47, IC

Selective timing for the arterial switch operation (Duncan, Poirier, & others) 2004;77:1691-7\*; Invited Commentary (Lacour-Gayet) 2004;77:1697, IC

### Arterial-to-arterial extracorporeal flow circuit

Hemodynamic unloading of the failing left ventricle using an arterial-to-arterial extracorporeal flow circuit (Haithcock, Morita, & others) 2004;77:158-63\*; Discussion (Mavroudis, Haithcock, & others) 2004;77:162-3, DI

### Arteriovenous fistula

Resolution of pulmonary arteriovenous fistula by redirection of hepatic venous blood (Ichikawa, Fukushima, & others) 2004;77:1825-7, CR

Use of internal mammary artery graft in dialysis patients with upper extremity arteriovenous fistula (Bonde & Campalani) 2004;77:379, CP; Reply (Kato & Ikawa) 2004;77:379

### Ascending aorta

Large lipoma of the ascending aorta (Davierwala, David, & Butany) 2004;77:1079-80, CR

Partial pericardial defect associated with ruptured aortic dissection of the ascending aorta: a rare feature presenting severe left hemothorax without cardiac tamponade (Nakajima, Tsuchiya, & others) 2004;77:1066-8, CR

### Ascending aortic aneurysms

Ascending aortic aneurysm, coarctation of the aortic isthmus and hypoplastic aortic arch: simultaneous treatment through sternotomy (Carrel & Berdat) 2004;77:1463, IM

Successful salvage of inferior vena cava rupture during reoperative repair for ascending aortic aneurysm (Chen & Hsieh) 2004;77:715-8, CR

Surgery for aortic root aneurysm in children: a 21-year experience in 50 patients (Cattaneo, Bethea, & others) 2004;77:168-76\*; Discussion (Miller, Kouchoukos, & others) 2004;77:175-6, DI

### Ascending aortic grafts

Successful treatment of ascending aortic graft infection after operation for acute aortic dissection with peripheral malperfusion (Kato, Imanaka, & others) 2004;77:2194-5, CR

### Aspergillus endocarditis

Cluster of cases of aspergillus endocarditis after cardiac surgery (El-Hamamsy, Durrelman, & others) 2004;77:2184-6, CR

### Atelectasis

Two cases of rounded atelectasis presenting after coronary artery surgery (Srinivasan, Holemans, & Page) 2004;77:2190-2, CR

### Atenolol

Preoperative use of sotalol versus atenolol for atrial fibrillation after cardiac surgery (Sanjuan, Blasco, & others) 2004;77:838-43\*

### Atherosclerosis

Diseased vein grafts express elevated inflammatory cytokine levels compared with atherosclerotic coronary arteries (Christiansen, Hartwig, & others) 2004;77:1575-9\*

Experimental study of surgical ultrasonic angioplasty: its effect on atherosclerosis and normal arteries (Chikada) 2004;77:243-6\*

Pinhole rupture of aortic root aneurysm with severe atherosclerotic change (Sako, Hadama, & others) 2004;77:1075-7, CR

Stent-graft repair of penetrating atherosclerotic ulcers in the descending thoracic aorta: mid-term results (Demers, Miller, & others) 2004;77:81-6\*

### Atrial defibrillation

Epicardial atrial defibrillation: successful treatment of postoperative atrial fibrillation (Patel, Hamman, & others) 2004;77:831-7\*; Discussion (Shumway, Patel, & others) 2004;77:835-7, DI

### Atrial fibrillation

Alternative energy sources for atrial fibrillation (Gillinov & McCarthy) 2004;77:1134, CP

Atrial reduction plasty Cox Maze procedure: extended indications for atrial fibrillation surgery (Romano, Bach, & others) 2004;77:1282-7\*; Discussion (Cox, Moritz, & others) 2004;77:1287, DI

Cox/Maze III operation versus radiofrequency ablation for the surgical treatment of atrial fibrillation: a comparative study (Chiappini, Martin-Suarez, & others) 2004;77:87-92\*

Does preoperative atrial fibrillation reduce survival after coronary artery bypass grafting? (Quader, McCarthy, & others) 2004;77:1514-24\*; Discussion (Smith, Quader, & others) 2004;77:1522-4, DI

Do off-pump techniques reduce the incidence of postoperative atrial fibrillation in elderly patients undergoing coronary artery bypass grafting? (Athanasίου, Aziz, & others) 2004;77:1567-74\*

**Atrial fibrillation (cont'd)**

- Efficacy of supplemental magnesium in reducing atrial fibrillation after coronary artery bypass grafting (Hazelrigg, Boley, & others) 2004;77:824-30\*
- Efficacy of the "box" lesion pattern in the treatment of atrial fibrillation in the presence of mitral valve disease (Bisleri, Vigilance, & others) 2004;77:1879-80, CP; Reply (Kalil & Lima) 2004;77:1880
- Epicardial atrial defibrillation: successful treatment of postoperative atrial fibrillation (Patel, Hamman, & others) 2004;77:831-7\*; Discussion (Shumway, Patel, & others) 2004;77:835-7, DI
- Indicators of atrial fibrillation risk in cardiac surgery patients on prophylactic amiodarone (Kalus, White, & others) 2004;77:1288-92\*
- Long-term follow-up after the mini-maze procedure (Szalay, Civelek, & others) 2004;77:1277-81\*
- Long-term results of irrigated radiofrequency modified Maze procedure in 200 patients with concomitant cardiac surgery: six years experience (Sie, Beukema, & others) 2004;77:512-7\*; Discussion (Cameron, Sie, & others) 2004;77:516-7, DI
- New cryoprobe for intraoperative ablation of atrial fibrillation (Doll, Meyer, & others) 2004;77:1460-2, CR
- Postoperative atrial fibrillation is a major cause of stroke after on-pump coronary artery bypass surgery (Lahtinen, Biancari, & others) 2004;77:1241-4\*
- Preoperative use of sotalol versus atenolol for atrial fibrillation after cardiac surgery (Sanjuan, Blasco, & others) 2004;77:838-43\*
- Randomized study of surgery for patients with permanent atrial fibrillation as a result of mitral valve disease (de Lima, Kalil, & others) 2004;77:2089-95\*; Invited Commentary (Fieguth) 2004;77:2094-5, IC

**Atrial natriuretic peptide**

- Atrial natriuretic peptide protects against ischemia-reperfusion injury in the isolated rat heart (Sangawa, Nakanishi, & others) 2004;77:233-7\*

**Atrial reduction plasty**

- Atrial reduction plasty Cox Maze procedure: extended indications for atrial fibrillation surgery (Romano, Bach, & others) 2004;77:1282-7\*; Discussion (Cox, Moritz, & others) 2004;77:1287, DI

**Atrial septal defects**

- Echocardiographic analysis of ventricular geometry and function during repair of congenital septal defects (Hart, Cabreriza, & others) 2004;77:53-60\*
- Late cardiac perforation following transcatheter atrial septal defect closure (Preventza, Sampath-Kumar, & others) 2004;77:1435-7, CR
- Robotic techniques improve quality of life in patients undergoing atrial septal defect repair (Morgan, Peacock, & others) 2004;77:1328-33\*
- Surgical patch closure of atrial septal defects (Hopkins, Bert, & others) 2004;77:2144-50\*; Invited Commentary 2004;77:2149-50, IC

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- Atrial switch operation: past, present, and future (Konstantinov, Alexi-Meskishvili, & others) 2004;77:2250-8, SH
- Late results of palliative atrial switch for transposition, ventricular septal defect, and pulmonary vascular obstructive disease (Burkhart, Dearani, & others) 2004;77:464-9\*; Discussion (Karl, Burkhart, & others) 2004;77:468-9, DI

**Atrioventricular septal defects**

- Atrioventricular septal defects: effect of bridging leaflet division on early valve function (Fortuna, Ashburn, & others) 2004;77:895-902\*; Discussion (Amato, Fortuna, & others) 2004;77:902, DI
- Left atrioventricular valve regurgitation after repair of incomplete atrioventricular septal defect (Murashita, Kubota, & others) 2004;77:2157-62\*
- Repair of complete atrioventricular septal defects in patients weighing less than 5 kg (Prifti, Bonacchi, & others) 2004;77:1717-26\*

**Atrioventricular valve regurgitation**

- Left atrioventricular valve regurgitation after repair of incomplete atrioventricular septal defect (Murashita, Kubota, & others) 2004;77:2157-62\*

**Autografts**

- Dissection in a pulmonary autograft (Kincaid, Maloney, & others) 2004;77:707-8, CR
- Is a bicuspid aortic valve a risk factor for adverse outcome after an autograft procedure? (Bogers, Kappetein, & others) 2004;77:1998-2003\*

**Autologous lung**

- New technique for right heart bypass in congenital heart surgery with autologous lung as oxygenator (Shivaprakasha, Rameshkumar, & others) 2004;77:988-93\*

**Autoregulation**

- Cerebral autoregulation after hypothermic circulatory arrest in operations on the aortic arch (Neri, Sassi, & others) 2004;77:72-80\*; Invited Commentary (LeMaire) 2004;77:79-80, IC

**Autotransfusion**

- Safety and efficacy of perioperative cell salvage and autotransfusion after coronary artery bypass grafting: a randomized trial (Murphy, Allen, & others) 2004;77:1553-9\*; Discussion (Harrison, Murphy, & Hammon) 2004;77:1559, DI

**Axillary artery**

- Cannulation of the axillary artery with a side graft reduces mortality (Sabik, Nemeh, & others) 2004;77:1315-20\*
- Smoking-related greater vessel stenoses and bilateral axillary artery revascularization (Baeza, Beyer, & Svensson) 2004;77:1847, IM

**Bacteria**

- Role of oral bacterial flora in calcific aortic stenosis: an animal model (Cohen, Malave, & others) 2004;77:537-43\*

**Bacterial translocation**

- Cardiopulmonary bypass in man: role of the intestine in a self-limiting inflammatory response with demonstrable bacterial translocation (Rossi, Sganga, & others) 2004;77:612-8\*

**Barrett's esophagus**

- Barrett's esophagus: the role of laparoscopic fundoplication (Abbas, Deschamps, & others) 2004;77:393-6\*

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Predictors of transfusion requirements for cardiac surgical procedures at a blood conservation center (Moskowitz, Klein, & others) 2004;77:626-34\*

**Blood-foreign surface interactions**

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**Blood transfusion**

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**Catheters**

- Intermittent infusion of 0.25% bupivacaine through an intrapleural catheter for post-thoracotomy pain relief (Tetik, Islamoglu, & others) 2004;77:284-8\*

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- Cellular cardiomyoplasty: clinical application (Chachques, Acar, & others) 2004;77:1121-30, RV
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Use of Monogen for pediatric postoperative chylothorax (Cormack, Wilson, & others) 2004;77:301-5\*

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Influence of inotropy and chronotropy on the mitral valve sphincter mechanism (Gorman, Jackson, & others) 2004;77:852-8\*; Invited Commentary (Timek & Miller) 2004;77:857-8, IC

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**Circulatory arrest (cont'd)**

Circulatory arrest for repair of postcoarctation site aneurysm (Kang, Clarke, & others) 2004;77:2029-33\*

Comparison of low-flow cardiopulmonary bypass and circulatory arrest on brain oxygen and metabolism (Schultz, Creed, & others) 2004;77:2138-43\*

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Cost analysis of aprotinin for coronary artery bypass patients: analysis of the randomized trials (Smith, Datta, & others) 2004;77:635-43\*; Invited Commentary (Shore-Lesserson, Reich, & Adams) 2004;77:642-3, IC

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Diseased vein grafts express elevated inflammatory cytokine levels compared with atherosclerotic coronary arteries (Christiansen, Hartwig, & others) 2004;77:1575-9\*

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**Deep hypothermic circulatory arrest**

Comparison of low-flow cardiopulmonary bypass and circulatory arrest on brain oxygen and metabolism (Schultz, Creed, & others) 2004;77:2138-43\*

Preoperative glucocorticoids decrease pulmonary hypertension in piglets after cardiopulmonary bypass and circulatory arrest (Pearl, Schwartz, & others) 2004;77:994-1000\*

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Management of deep sternal infection in infants and children with advanced pectoralis major muscle flaps (Sung, Jun, & others) 2004;77:1371-5\*

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**Editorials**

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Successful resuscitation of a patient with acute massive pulmonary embolism using emergency embolectomy (Georghiou, Brauner, & others) 2004;77:697-9, CR

**Embolism**

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Open pulmonary embolectomy for treatment of major pulmonary embolism (Yalamanchili, Fleisher, & others) 2004;77:819-23\*; Invited Commentary (Karmy-Jones & Chong) 2004;77:823, IC  
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Empyema resulting from a true colopleural fistula complicating a perforated sigmoid diverticulum (Papagiannopoulos, Gialvalis, & others) 2004;77:324-6, CR

**Empyema thoracis**

Changing dogmas: history of development in treatment modalities of traumatic pneumothorax, hemothorax, and posttraumatic empyema thoracis (Molnar, Hasse, & others) 2004;77:372-8, SH

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Preoperative chemoradiation therapy does not improve early survival after esophagectomy for patients with clinical stage III adenocarcinoma of the esophagus (Donington, Miller, & others) 2004;77:1193-9\*; Discussion (Meyers, Reed, & others) 2004;77:1198-9, DI

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Closure of large intrathoracic airway defects using extrathoracic muscle flaps (Meyer, Krueger, & others) 2004;77:397-405\*; Invited Commentary (Odell) 2004;77:405, IC

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- Fresh frozen plasma**  
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- Fundoplication**  
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- Gastric carcinoma**  
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**Hemochron Jr.**

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**Hydatidosis**

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**Immunosuppression**

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Left ventricular pressure and volume unloading during pulsatile versus nonpulsatile left ventricular assist device support (Klotz, Deng, & others) 2004;77:143-50\*; Invited Commentary (Lachapelle) 2004;77:149-50, IC

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### Lung grafts

Upregulated hypoxia-inducible factor-1 DNA binding activity to the vascular endothelial growth factor-A promoter mediates increased vascular permeability in donor lung grafts (Abraham, Krenn, & others) 2004;77:1751-5\*

### Lung hypoplasia

Horseshoe lung with left lung hypoplasia and critical pulmonary venous stenosis (Lutterman, Jedeikin, & Cleveland) 2004;77:1085-7, CR

### Lung injury

Lung perfusion with protective solution relieves lung injury in corrections of tetralogy of Fallot (Wei, Liu, & others) 2004;77:918-24\*

### Lung ischemia-reperfusion injury

$\beta$ -Chemokine function in experimental lung ischemia-reperfusion injury (Krishnadasan, Farivar, & others) 2004;77:1056-62\*

Intratracheal poly (ADP) ribose synthetase inhibition ameliorates lung ischemia reperfusion injury (Farivar, Woolley, & others) 2004;77:1938-43\*

### Lung metastases

Surgical resection of lung metastases from epithelial tumors (Monteiro, Arce, & others) 2004;77:431-7\*

**Lung perfusion**

Lung perfusion with protective solution relieves lung injury in corrections of tetralogy of Fallot (Wei, Liu, & others) 2004;77:918-24\*

**Lung resection**

Minithoracotomy combined with mechanically stapled bronchial and vascular ligation for anatomical lung resection (Szwerc, Landreneau, & others) 2004;77:1904-10\*; Discussion (Meyers, Szwerc, & others) 2004;77:1909-10, DI

Pulmonary resection in octogenarians with stage I nonsmall cell lung cancer: a 22-year experience (Brock, Kim, & others) 2004;77:271-7\*

Salvage intensive care following initial recovery from pulmonary resection: is it justified? (Pilling, Martin-Ucar, & Waller) 2004;77:1039-44\*

Simultaneous lung resection for cancer and myocardial revascularization without cardiopulmonary bypass (off-pump coronary artery bypass grafting) (Dyszkiewicz, Jemielity, & others) 2004;77:1023-7\*

Stair climbing test as a predictor of cardiopulmonary complications after pulmonary lobectomy in the elderly (Brunelli, Monteverde, & others) 2004;77:266-70\*

**Lung transplantation**

Acute postoperative pain in lung transplant recipients (Richard, Girard, & others) 2004;77:1951-5\*; Invited Commentary (Letsou) 2004;77:1955, IC

Application of ET-Kyoto solution in clinical lung transplantation (Omasa, Hasegawa, & others) 2004;77:338-9, CR

How long can we preserve the pulmonary graft inside the nonheart-beating donor? (Rega, Neyrinck, & others) 2004;77:438-44\*; Discussion (Egan, Regan, & Smythe) 2004;77:444, DI

Trigger for intercellular adhesion molecule-1 expression in rat lungs transplanted from non-heart-beating donors (Egan, Thomas, & others) 2004;77:1048-55\*; Di (Jones & Schrupp) 2004;77:1055, DI

**Lung tumors**

Primary lung tumor mimicking acute type A aortic dissection (Sonker, Peel, & others) 2004;77:1841-3, CR

Pseudo tumors of the lung after lung volume reduction surgery (Oey, Jeyapalan, & others) 2004;77:1094-6, CR

**Lung volume reduction surgery**

Pseudo tumors of the lung after lung volume reduction surgery (Oey, Jeyapalan, & others) 2004;77:1094-6, CR

**Lung wedge resection**

Lung wedge resection improves outcome in stage I primary spontaneous pneumothorax (Czerny, Salat, & others) 2004;77:1802-5\*

**Lupus anticoagulant antibodies**

Thrombosis of aortic valve homograft associated with lupus anticoagulant antibodies (Unger, Plein, & others) 2004;77:312-4, CR

**Lymphangiectasia**

Management of newborn lymphangiectasia and chylothorax after cardiac surgery with octreotide infusion (Tibballs, Soto, & Bharucha) 2004;77:2213-5, CR

**Lymphangiomatosis**

Pediatric thoracic lymphangiomatosis: is chest wall resection too radical? (Papagiannopoulos, Van Raemdonck, & others) 2004;77:695-7, CR

**Lymph node(s)**

Bronchial carcinoid tumors: nodal status and long-term survival after resection (Cardillo, Sera, & others) 2004;77:1781-85\*

Radioisotope lymph node mapping in nonsmall cell lung cancer: can it be applicable for sentinel node biopsy? (Ueda, Suga, & others) 2004;77:426-30\*

**Lymph node dissection**

Sealing of the mediastinum with a local hemostyptic agent reduces chest tube duration after complete mediastinal lymph node dissection for stage I and II non-small cell lung carcinoma (Czerny, Fleck, & others) 2004;77:1028-32\*

**Lymph node metastases**

Peripheral intrapulmonary lymph node metastases of non-small-cell lung cancer (Boubia, Barthes, & others) 2004;77:1096-8, CR

Prognostic significance of lymph node metastasis found during pulmonary metastasectomy for extrapulmonary carcinoma (Ercan, Nichols, & others) 2004;77:1786-91\*; Discussion (Gaissert, Ercan, & others) 2004;77:1790-1, DI

**Lymphography**

Preoperative imaging of the lung sentinel lymphatic basin with computed tomographic lymphography: a preliminary study (Ueda, Suga, & others) 2004;77:1033-8\*; Invited Commentary (Odell) 2004;77:1037-8, IC

**Magnesium**

Efficacy of supplemental magnesium in reducing atrial fibrillation after coronary artery bypass grafting (Hazelrigg, Boley, & others) 2004;77:824-30\*

**Magnetic resonance imaging**

Isotropic half-millimeter angiography of coronary artery bypass grafts with 16-slice computed tomography (Dewey, Lembcke, & others) 2004;77:800-4\*

**Major adverse cardiac events**

Five-year outcomes of beating heart coronary artery bypass grafting using proximal mechanical connectors (Dewey, Crumrine, & others) 2004;77:1542-9\*

**Malignancies**

Effect of prior malignancy on survival after cardiac surgery (Mistiaen, Van Cauwelaert, & others) 2004;77:1593-7\*; Invited Commentary (Byrne & Leacche) 2004;77:1597, IC

**Malperfusion**

Internal thoracic artery malperfusion: fast decision for an additional vein graft has impact on patient outcome (Massoudy, Kim, & others) 2004;77:2061-5\*; Invited Commentary (Sundt) 2004;77:2065, IC

Management strategies for type A dissection complicated by peripheral vascular malperfusion (Girardi, Krieger, & others) 2004;77:1309-14\*; Invited Commentary (Kouchoukos) 2004;77:1314, IC

Successful treatment of ascending aortic graft infection after operation for acute aortic dissection with peripheral malperfusion (Kato, Imanaka, & others) 2004;77:2194-5, CR

**Marfan syndrome**

Endovascular stent grafting for rupture of a thoracoabdominal aortic aneurysm after replacement of the entire aorta (Hachiro, Harada, & others) 2004;77:1101, IM

Marfan syndrome as a predisposing factor for traumatic aortic insufficiency (Onorati, De Santo, & others) 2004;77:2192-4, CR

**Mass spectrometry**

Continuous measurement of oxygen consumption during cardiopulmonary bypass: description of the method and in vivo observations (Li, Stokoe, & others) 2004;77:1671-7\*

**Matrix proteins**

Fibrillin and other matrix proteins in mitral valve prolapse syndrome (Nasuti, Zhang, & others) 2004;77:532-6\*



### Maze procedure

Long-term results of irrigated radiofrequency modified Maze procedure in 200 patients with concomitant cardiac surgery: six years experience (Sie, Beukema, & others) 2004;77:512-7\*; Discussion (Cameron, Sie, & others) 2004;77:516-7, DI

Maze procedure (van Hemel & Defauw) 2004;77:381, CP; Reply (Gillinov, Blackstone, & McCarthy) 2004;77:381-2

Modified cavoatriotomy for combined PAPVC repair and Maze procedure (Nakajima, Uemura, & others) 2004;77:2226-7, HW

### Mechanical connectors

Five-year outcomes of beating heart coronary artery bypass grafting using proximal mechanical connectors (Dewey, Crumrine, & others) 2004;77:1542-9\*

### Mechanical ventilation

Closure of an iatrogenic tracheoesophageal fistula with bronchoscopic gluing in a mechanically ventilated adult patient (Scappaticci, Ardisson, & others) 2004;77:328-9, CR

### Median sternotomy

Biomechanical comparison of median sternotomy closures (Losanoff, Collier, & others) 2004;77:203-9\*

Implantation of MicroMed DeBakey VAD through left thoracotomy after previous median sternotomy operations (Hetzer, Potapov, & others) 2004;77:347-50, HW

Lower sternal reinforcement to improve median sternotomy closure (Losanoff, Richman, & Jones) 2004;77:2261, CP; Reply (Dasika & Magovern) 2004;77:2261-2

Successful repair of aberrant right subclavian artery aneurysm combined with bicuspid aortic valve through a median sternotomy (Kono, Kitahara, & others) 2004;77:2196-7, CR

Superficial wound dehiscence after median sternotomy: surgical treatment versus secondary wound healing (Zeitani, Bertoldo, & others) 2004;77:672-5\*

Transfemoral control of ruptured aortic pseudoaneurysm at aortic root reoperation (Pettersson, Nores, & Gillinov) 2004;77:311-2\*, CR

### Mediastinal liposarcoma

Surgical resection of recurrent bilateral mediastinal liposarcoma through the clamshell approach (Ohta, Murata, & others) 2004;77:1837-9, CR

### Mediastinal tumors

Extrapleural thoracoscopic excision of a mediastinal bronchogenic cyst in a patient with dense pleural adhesions (Sato, Watanabe, & others) 2004;77:1091-3, CR

### Mediastinitis

Descending necrotizing mediastinitis: a minimally invasive approach using video-assisted thoracoscopic surgery (Min, Choi, & others) 2004;77:306-10\*

Risk factors for mediastinitis after cardiac surgery (Abboud, Wey, & Baltar) 2004;77:676-83\*

Successful thoracoscopic debridement of descending necrotizing mediastinitis (Isowa, Yamada, & others) 2004;77:1834-7, CR

Successful treatment of ascending aortic graft infection after operation for acute aortic dissection with peripheral malperfusion (Kato, Imanaka, & others) 2004;77:2194-5, CR

### Mediastinoscopy

Is routine preoperative mediastinoscopy indicated in clinical stage I non-small-cell lung cancer? (Pramesh, Mistry, & others) 2004;77:1877, CP

### Mediastinum

Endoscopic ultrasound in lung cancer patients with a normal mediastinum on computed tomography (Wallace, Ravenel, & others) 2004;77:1763-8\*

Noninvasive thymoma in the middle mediastinum (Kanzaki, Oyama, & others) 2004;77:2209-10, CR

Sealing of the mediastinum with a local hemostyptic agent reduces chest tube duration after complete mediastinal lymph node dissection for stage I and II non-small cell lung carcinoma (Czerny, Fleck, & others) 2004;77:1028-32\*

Surgical management of leiomyosarcoma of the mediastinum (Conner, Fink, & others) 2004;77:334-6, CR

### Medical education

Implementing the ACGME General Competencies in a cardiothoracic surgery residency program using 360-degree feedback (Higgins, Bridges, & others) 2004;77:12-7\*

### Medtronic Freestyle valve

Medtronic Freestyle valve for right ventricular reconstruction in pediatric Ross operations (Novick, Anic, & others) 2004;77:1711-6\*

### Mesenteric vascular reactivity

Changes in mesenteric vascular reactivity and inflammatory response after cardiopulmonary bypass in a rat model (Doguet, Litzler, & others) 2004;77:2130-7\*; Invited Commentary (Ohri) 2004;77:2137, IC

### Mesothelial cysts

Migrating pleural mesothelial cyst (Walker, Sieber, & Boorboor) 2004;77:701-2, CR

### Metachronous gastric carcinoma

Metachronous gastric carcinoma from a gastric tube after radical surgery for esophageal carcinoma (Okamoto, Ozawa, & others) 2004;77:1189-92\*

### Metastasectomy

Prognostic significance of lymph node metastasis found during pulmonary metastasectomy for extrapulmonary carcinoma (Ercan, Nichols, & others) 2004;77:1786-91\*; Discussion (Gaissert, Ercan, & others) 2004;77:1790-1, DI

Pulmonary metastasectomy for uterine cervical cancer: a multivariate analysis (Yamamoto, Yoshikawa, & others) 2004;77:1179-82\*

### Metastases

Peripheral intrapulmonary lymph node metastases of non-small-cell lung cancer (Boubia, Barthes, & others) 2004;77:1096-8, CR

Prognostic significance of lymph node metastasis found during pulmonary metastasectomy for extrapulmonary carcinoma (Ercan, Nichols, & others) 2004;77:1786-91\*; Discussion (Gaissert, Ercan, & others) 2004;77:1790-1, DI

Surgical resection of lung metastases from epithelial tumors (Monteiro, Arce, & others) 2004;77:431-7\*

### Methylene blue

Methylene blue reduces mortality and morbidity in vasoplegic patients after cardiac surgery (Levin, Degrange, & others) 2004;77:496-9\*

### Microcirculation

Alteration of cellular electrophysiologic properties in porcine pulmonary microcirculation after preservation with University of Wisconsin and Euro-Collins solutions (Zhang, Yang, & others) 2004;77:1944-50\*

### MicroMed DeBakey left ventricular assist device

Implantation of MicroMed DeBakey VAD through left thoracotomy after previous median sternotomy operations (Hetzer, Potapov, & others) 2004;77:347-50, HW

### Mini-extracorporeal circulation system

Clinical experience with the mini-extracorporeal circulation system: an evolution or a revolution? (Remadi, Marticho, & others) 2004;77:2172-6, NT; Invited Commentary (Holman) 2004;77:2176, IC

- Minimally invasive coronary artery surgery**  
Clinical experience with devices for facilitated anastomoses in coronary artery bypass surgery (Carrel, Eckstein, & others) 2004;77:1110-20, RV  
Robotic techniques improve quality of life in patients undergoing atrial septal defect repair (Morgan, Peacock, & others) 2004;77:1328-33\*
- Minimally invasive direct coronary artery bypass**  
Minimally invasive direct coronary artery bypass in a cardiac transplant recipient with allograft vasculopathy (Aleksic, Piotrowski, & others) 2004;77:1433-4, CR
- Mini-maze procedure**  
Long-term follow-up after the mini-maze procedure (Szalay, Civelek, & others) 2004;77:1277-81\*
- Minithoracotomy**  
Dorsal minithoracotomy for ductus arteriosus clip closure in premature neonates (Vicente, Rodrigues, & others) 2004;77:1105-6, HW  
Minithoracotomy combined with mechanically stapled bronchial and vascular ligation for anatomical lung resection (Szwerc, Landreneau, & others) 2004;77:1904-10\*; Discussion (Meyers, Szwerc, & others) 2004;77:1909-10, DI
- Mitral annular motion**  
Semirigid partial annuloplasty band allows dynamic mitral annular motion and minimizes valvular gradients: an echocardiographic study (Sharony, Saunders, & others) 2004;77:518-22\*; Invited Commentary (Gorman & Gorman) 2004;77:522, IC
- Mitral annuloplasty**  
Semirigid partial annuloplasty band allows dynamic mitral annular motion and minimizes valvular gradients: an echocardiographic study (Sharony, Saunders, & others) 2004;77:518-22\*; Invited Commentary (Gorman & Gorman) 2004;77:522, IC
- Mitral regurgitation**  
Edge-to-edge (Alfieri) mitral repair: results in diverse clinical settings (Bhudia, McCarthy, & others) 2004;77:1598-606\*; Discussion (Knight, Shumway, & others) 2004;77:1604-5, DI  
Effect of regional ischemia on mitral valve annular saddle shape (Gorman, Jackson, & others) 2004;77:544-8\*  
Mitral valve surgery for chronic ischemic mitral regurgitation (Calafiore, Di Mauro, & others) 2004;77:1989-97\*  
Off-pump mitral valve repair using the Coapsys device: a pilot study in a pacing-induced mitral regurgitation model (Fukamachi, Inoue, & others) 2004;77:688-93, NT; Discussion (Subramanian, Fukamachi, & others) 2004;77:692, DI; Invited Commentary (Sundt) 2004;77:693, IC  
Posterior mitral valve restoration for ischemic regurgitation (Fundaro, Pocar, & others) 2004;77:729-30, HW
- Mitral valve**  
Accessory mitral valve tissue causing severe left ventricular outflow tract obstruction in an adult (Aoka, Ishizuka, & others) 2004;77:713-5, CR  
Influence of inotropy and chronotropy on the mitral valve sphincter mechanism (Gorman, Jackson, & others) 2004;77:852-8\*; Invited Commentary (Timek & Miller) 2004;77:857-8, IC  
Overlapping annuloplasty of the mitral valve in children (Pretre, Kadner, & others) 2004;77:1857-9, HW  
Posterior mitral valve restoration for ischemic regurgitation (Fundaro, Pocar, & others) 2004;77:729-30, HW
- Mitral valve annulus**  
Effect of regional ischemia on mitral valve annular saddle shape (Gorman, Jackson, & others) 2004;77:544-8\*
- Mitral valve disease**  
Efficacy of the "box" lesion pattern in the treatment of atrial fibrillation in the presence of mitral valve disease (Bisleri, Vigilance, & others) 2004;77:1879-80, CP; Reply (Kalil & Lima) 2004;77:1880  
Randomized study of surgery for patients with permanent atrial fibrillation as a result of mitral valve disease (de Lima, Kalil, & others) 2004;77:2089-95\*; Invited Commentary (Fieguth) 2004;77:2094-5, IC
- Mitral valve prolapse syndrome**  
Fibrillin and other matrix proteins in mitral valve prolapse syndrome (Nasuti, Zhang, & others) 2004;77:532-6\*
- Mitral valve repair**  
Hemolysis after mitral valve repair: mechanisms and treatment (Lam, Cosgrove, & others) 2004;77:191-5\*  
Leaflet folding plasty combined with annular plication for mitral valve repair (Nakajima, Tsuchiya, & others) 2004;77:1103-4, HW  
Minimally invasive mitral valve repair using the da Vinci robotic system (Tatooles, Pappas, & others) 2004;77:1978-84\*; Discussion (Chitwood & Tatooles) 2004;77:1982-3, DI  
Mitral valve repair in a 55-year-old managed using with left lung agenesis (Musleh, Fernandez, & others) 2004;77:1810-1, CR  
Mitral valve repair with the Colvin-Galloway Future Band (Fasol, Meinhart, & others) 2004;77:1985-8\*; Invited Commentary (de Oliveira) 2004;77:1988, IC  
Off-pump mitral valve repair using the Coapsys device: a pilot study in a pacing-induced mitral regurgitation model (Fukamachi, Inoue, & others) 2004;77:688-93, NT; Discussion (Subramanian, Fukamachi, & others) 2004;77:692, DI; Invited Commentary (Sundt) 2004;77:693, IC
- Mitral valve replacement**  
Endoventricular pocket repair of type I myocardial rupture after mitral valve replacement: a new technique using pericardial patch, teflon felt, and bioglue (Masroor, Schor, & others) 2004;77:1439-41, CR  
Late results after mitral valve replacement with bileaflet mechanical prosthesis in children: evaluation of prosthesis-patient mismatch (Masuda, Kado, & others) 2004;77:913-7\*  
Left ventricular-coronary sinus/right ventricular fistula late after mitral valve replacement (Almodovar, Rofilanchas, & others) 2004;77:1441-3, CR  
Left ventricular rupture after mitral surgery: repair by patch and sealing (Fasol, Wild, & El Dsoki) 2004;77:1070-2, CR
- Mitral valve surgery**  
Mitral valve surgery for chronic ischemic mitral regurgitation (Calafiore, Di Mauro, & others) 2004;77:1989-97\*  
Multivariable prediction of in-hospital mortality associated with aortic and mitral valve surgery in northern New England (Nowicki, Birkmeyer, & others) 2004;77:1966-77\*
- Monocytes**  
Monocyte Fc gamma receptor expression in patients undergoing coronary artery bypass grafting (Stefanou, Asimakopoulos, & others) 2004;77:951-5\*
- Monogen**  
Use of Monogen for pediatric postoperative chylothorax (Cormack, Wilson, & others) 2004;77:301-5\*
- Morbidity**  
Methylene blue reduces mortality and morbidity in vasoplegic patients after cardiac surgery (Levin, Degrange, & others) 2004;77:496-9\*  
Neutrophil depletion reduces myocardial reperfusion morbidity (Palatianos, Galentine, & others) 2004;77:956-61\*



## Mortality

- Cannulation of the axillary artery with a side graft reduces mortality (Sabik, Nemeh, & others) 2004;77:1315-20\*
- Cardiac surgery risk modeling for mortality: a review of current practice and suggestions for improvement (Omar, Ambler, & others) 2004;77:2232-7, RV
- Changing donor and recipient demographics in a heart transplantation program: influence on early outcome (Solomon, McGiven, & others) 2004;77:2096-102\*
- Comparison of short-term mortality risk factors for valve replacement versus coronary artery bypass graft surgery (Gardner, Grunwald, & others) 2004;77:549-56\*
- Early mortality in coronary bypass surgery: the EuroSCORE versus the Society of Thoracic Surgeons risk algorithm (Nilsson, Algotsson, & others) 2004;77:1235-40\*; Invited Commentary (Gold) 2004;77:1239-40, IC
- Impact of Pexelizumab, an anti-C5 complement antibody, on total mortality and adverse cardiovascular outcomes in cardiac surgical patients undergoing cardiopulmonary bypass (Shernan, Fitch, & others) 2004;77:942-50\*; Invited Commentary (Svedjeholm) 2004;77:949-50, IC
- Methylene blue reduces mortality and morbidity in vasoplegic patients after cardiac surgery (Levin, Degrange, & others) 2004;77:496-9\*
- Mortality on the waiting list for coronary artery bypass grafting: incidence and risk factors (Rexius, Brandrup-Wognsen, & others) 2004;77:769-75\*; Invited Commentary (Novick) 2004;77:774-5, IC
- Multivariable prediction of in-hospital mortality associated with aortic and mitral valve surgery in northern New England (Nowicki, Birkmeyer, & others) 2004;77:1966-77\*
- Predictors of mortality at initiation of peritoneal dialysis in children after cardiac surgery (Boigner, Brannath, & others) 2004;77:61-5\*

## Murine models

- Overexpressed nuclear factor  $\kappa$ B correlates with enhanced expression of interleukin-1 $\beta$  and inducible nitric oxide synthase in aged murine lungs to endotoxin stress (Chang & LoCicero) 2004;77:1222-7\*; Invited Commentary (Block) 2004;77:1227, IC

## Muscle flaps

- Closure of large intrathoracic airway defects using extrathoracic muscle flaps (Meyer, Krueger, & others) 2004;77:397-405\*; Invited Commentary (Odell) 2004;77:405, IC
- Management of deep sternal infection in infants and children with advanced pectoralis major muscle flaps (Sung, Jun, & others) 2004;77:1371-5\*
- Simple technique for maximal thoracic muscle harvest (Marshall, Kaiser, & Kucharczuk) 2004;77:1465-6, HW

## Mustard operation

- Health status, functional abilities, and quality of life after the Mustard or Senning operation (Moons, De Bleser, & others) 2004;77:1359-65\*; Invited Commentary (Van Arsdell) 2004;77:1365, IC

## Myasthenia gravis

- Experience with programmed steroid treatment with thymectomy in nonthymomatous myasthenia gravis (Endo, Yamaguchi, & others) 2004;77:1745-50\*

## Mycophenolic mofetil

- Mycophenolic mofetil reduces the HLA antibody response of children to valved allograft implantation (Shaddy, Fuller, & others) 2004;77:1734-9\*; Invited Commentary (Ross) 2004;77:1739, IC

## Myocardial dysfunction

- High-frequency QRS potentials as a marker of myocardial dysfunction after cardiac surgery (Matsushita, Sakakibara, & others) 2004;77:1293-7\*

## Myocardial hypertrophy

- Promoting angiogenesis protects severely hypertrophied hearts from ischemic injury (Friehe, Moran, & others) 2004;77:2004-11\*; Invited Commentary (Kocica) 2004;77:2011, IC

## Myocardial protection

- Experimental studies on myocardial protection with intermittent cross-clamp fibrillation: additive effect of the sodium-hydrogen exchanger inhibitor, cariporide (Fujii, Avkiran, & Chambers) 2004;77:1398-407\*

## Myocardial reperfusion

- Neutrophil depletion reduces myocardial reperfusion morbidity (Palatianos, Galentine, & others) 2004;77:956-61\*

## Myocardial revascularization

- Late myocardial revascularization in patients with tetralogy of Fallot (Coutu, Poirier, & others) 2004;77:1454-5, CR
- Off-pump myocardial revascularization is associated with less incidence of stroke in elderly patients (Athanasios, Al-Ruzzeh, & others) 2004;77:745-53, RV
- Off-pump versus on-pump myocardial revascularization in low-risk patients with one or two vessel disease: perioperative results in a multicenter randomized controlled trial (Gerola, Buffolo, & others) 2004;77:569-73\*
- Optimizing use of the Octopus system for off-pump total arterial myocardial revascularization with the TY graft (Vicol, Nollert, & others) 2004;77:731-3
- Simultaneous lung resection for cancer and myocardial revascularization without cardiopulmonary bypass (off-pump coronary artery bypass grafting) (Dyszkiewicz, Jemielity, & others) 2004;77:1023-7\*

## Myocardial stunning

- Sodium-hydrogen exchange inhibition attenuates in vivo porcine myocardial stunning (Stevens, Jahania, & others) 2004;77:651-7\*

## Myocardium

- Continuous cold blood cardioplegia improves myocardial protection: a prospective randomized study (Louagie, Jamart, & others) 2004;77:664-71\*
- Diazoxide provides protection to human myocardium in vitro that is concentration dependent (Deja, Golba, & others) 2004;77:226-32\*; Discussion (Jacobs, Deja, & others) 2004;77:232, DI
- Fibrous matrix of ventricular myocardium in hypoplastic left heart syndrome: a quantitative and qualitative analysis (Salih, McCarthy, & Ho) 2004;77:36-40\*
- Local myocardial overexpression of growth hormone attenuates postinfarction remodeling and preserves cardiac function (Jayasankar, Bish, & others) 2004;77:2122-9\*; Invited Commentary 2004;77:2129, IC
- Therapeutic angiogenesis in chronically ischemic porcine myocardium: comparative effects of bFGF and VEGF (Hughes, Biswas, & others) 2004;77:812-8\*

## Myocytes

- Myocyte contractility with caspase inhibition and simulated hyperkalemic circulatory arrest (Mukherjee, Yarbrough, & others) 2004;77:1684-90\*; Invited Commentary (Chandrasekhar) 2004;77:1689-90, IC

## Myotomy

- Thoracoscopy-assisted Heller myotomy for the treatment of achalasia: results of a minimally invasive technique (Kesler, Tarvin, & others) 2004;77:385-92\*; Discussion (Nichols & Kesler) 2004;77:391-2, DI

**Nafamostat mesilate**

Effects of nafamostat mesilate and minimal-dose aprotinin on blood-foreign surface interactions in cardiopulmonary bypass (Kaminishi, Hiramatsu, & others) 2004;77:644-50\*

**Necrotizing mediastinitis**

Descending necrotizing mediastinitis: a minimally invasive approach using video-assisted thoracoscopic surgery (Min, Choi, & others) 2004;77:306-10\*

Successful thoracoscopic debridement of descending necrotizing mediastinitis (Isowa, Yamada, & others) 2004;77:1834-7, CR

**Needle embolism**

Needle embolism to the heart (Baker, Nigro, & others) 2004;77:1102, IM

**Neointima**

Functional neointima characterization of vascular prostheses in human (Wallis, G"rler, & others) 2004;77:864-8\*

Local application of rapamycin inhibits neointimal hyperplasia in experimental vein grafts (Schachner, Zou, & others) 2004;77:1580-5\*

**Neonates**

*See also* Children; Infants

Composite aortoplasty for recurrent coarctation after neonatal repair in Williams syndrome (Marks, Mitchell, & others) 2004;77:319-21, CR

Dorsal minithoracotomy for ductus arteriosus clip closure in premature neonates (Vicente, Rodrigues, & others) 2004;77:1105-6, HW

Early Blalock-Taussig shunt thrombosis in a neonate with protein C deficiency (Tireli & Basaran) 2004;77:2260-1, CP

Management of newborn lymphangiectasia and chylothorax after cardiac surgery with octreotide infusion (Tibballs, Soto, & Bharucha) 2004;77:2213-5, CR

Preoperative brain injury in newborns with transposition of the great arteries (Miller, McQuillen, & others) 2004;77:1698-706\*; Discussion (Jonas, Carney, & Miller) 2004;77:1705-6, DI

Repair of complete atrioventricular septal defects in patients weighing less than 5 kg (Prifti, Bonacchi, & others) 2004;77:1717-26\*

Ross-Konno procedure in neonates: report of three patients (Lacour-Gayet, Sauer, & others) 2004;77:2223-5, HW

**Neurocognitive outcome**

Neurocognitive outcome after retrograde cerebral perfusion (Miyairi, Takamoto, & others) 2004;77:1630-5\*; Invited Commentary (Reich & Uysal) 2004;77:1635, IC

**Neurogenic tumors**

Extralobar pulmonary sequestration stimulates posterior neurogenic tumor (Lupinski, Agasthian, & others) 2004;77:2203-4, CR

Ultrasonic dissectors for neurogenic tumors of the superior sulcus (Gossot) 2004;77:2263, CP; Reply (Pons) 2004;77:2264, CR

**Neutrophils**

Neutrophil depletion reduces myocardial reperfusion morbidity (Palatianos, Galentine, & others) 2004;77:956-61\*

**Nicorandil**

Replacing potassium with nicorandil in cold St. Thomas' hospital cardioplegia improves preservation of energetics and function in pig hearts (Steensrud, Nordhaug, & others) 2004;77:1391-7\*

**Nitric oxide**

Nitric oxide and prostacyclin in ultrasonic vasodilatation of the canine internal mammary artery (Maruo, Hamner, & others) 2004;77:126-32\*

**Noncompaction**

Heart transplantation in a patient with isolated noncompaction of the left ventricular myocardium (Stamou, Lefrak, & others) 2004;77:1806-8, CR

**Nonheart-beating donors**

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- Oxygenation**  
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### Pectus excavatum

Nuss procedure for pectus excavatum: evolution of techniques and early results on 322 patients (Park, Lee, & others) 2004;77:289-95\*; Discussion (Palmer & Dernevik) 2004;77:294-5, DI

Simultaneous repair of pectus excavatum and congenital heart defect in adults by using the convex bar (Okamura, Nagase, & others) 2004;77:1827-9, CR

Use of a lateral stabilizer increases the incidence of wound trouble following the Nuss procedure (Watanabe, Watanabe, & others) 2004;77:296-300\*

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### Peel operation

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### Penetrating atherosclerotic ulcers

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**Pericarditis**

Left ventricular dysfunction after pericardiectomy for constrictive pericarditis (Schofield, Shoemaker, & others) 2004;77:1449-51, CR

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**Peripheral intrapulmonary lymph nodes**

Peripheral intrapulmonary lymph node metastases of non-small-cell lung cancer (Boubia, Barthes, & others) 2004;77:1096-8, CR

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**Peritoneal dialysis**

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**Pexelizumab**

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**Photodynamic therapy**

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**pH-stat strategy**

Use of a pH-stat strategy during retrograde cerebral perfusion improves cerebral perfusion and tissue oxygenation (Ye, Li, & others) 2004;77:1664-70\*; Invited Commentary (Ehrlich) 2004;77:1670, IC

**Plasma**

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**Plasmapheresis**

Plasmapheresis as effective treatment for thyrotoxic storm after sleeve pneumonectomy (Petry, Van Schil, & others) 2004;77:1839-41, CR

**Platelets**

Clinical significance of P1A polymorphism of platelet GP IIb/IIIa receptors during long-term VAD support (Potapov, Ignatenko, & others) 2004;77:869-74\*; Invited Commentary (John & Naka) 2004;77:874, IC

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**Pleural adhesions**

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**Pleural perfusion thermochemotherapy**

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**Pneumonectomy**

Plasmapheresis as effective treatment for thyrotoxic storm after sleeve pneumonectomy (Petry, Van Schil, & others) 2004;77:1839-41, CR

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Novel technique for creation of adjustable pneumoperitoneum (Puc, Podbielski, & Conlan) 2004;77:1469-71, HW

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Changing dogmas: history of development in treatment modalities of traumatic pneumothorax, hemothorax, and posttraumatic empyema thoracis (Molnar, Hasse, & others) 2004;77:372-8, SH

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**Poly-L-lactide sternal pin**

Biomechanical study of a poly-L-lactide (PLLA) sternal pin in sternal closure after cardiothoracic surgery (Saito, Iguchi, & others) 2004;77:684-7\*

**Poly-2-methoxyethylacrylate**

New poly-2-methoxyethylacrylate-coated cardiopulmonary bypass circuit possesses superior platelet preservation and inflammatory suppression efficacy (Ikuta, Fujii, & others) 2004;77:1678-83\*

**Polytetrafluoroethylene pouch**

Intraabdominal placement of a Novacor ventricular assist system by using an expanded polytetrafluoroethylene pouch (Matsumiya, Miyamoto, & others) 2004;77:1851-3, HW

**Polyvinyl chloride**

Effect of complement inhibition and heparin coating on artificial surface-induced leukocyte and platelet activation (Lappegard, Fung, & others) 2004;77:932-41\*

**Porcine models**

Acidosis-induced apoptosis in human and porcine heart (Thatte, Rhee, & others) 2004;77:1376-83\*

Alteration of cellular electrophysiologic properties in porcine pulmonary microcirculation after preservation with University of Wisconsin and Euro-Collins solutions (Zhang, Yang, & others) 2004;77:1944-50\*

Comparison of low-flow cardiopulmonary bypass and circulatory arrest on brain oxygen and metabolism (Schultz, Creed, & others) 2004;77:2138-43\*

Effect of the Na<sup>+</sup>/H<sup>+</sup> exchange inhibitor eniporide on cardiac performance and myocardial high energy phosphates in pigs subjected to cardioplegic arrest (Klass, Fischer, & others) 2004;77:658-63\*

Effects of sildenafil analogue UK 343-664 on a porcine model of acute pulmonary hypertension (Bonnell, Urdaneta, & others) 2004;77:238-42\*; Discussion (Mavroudis & Bonnell) 2004;77:241-2, DI

Hemodilution elevates cerebral blood flow and oxygen metabolism during cardiopulmonary bypass in piglets (Sakamoto, Nollert, & others) 2004;77:1656-63\*; Invited Commentary (Hammon) 2004;77:1663, IC

Preoperative glucocorticoids decrease pulmonary hypertension in piglets after cardiopulmonary bypass and circulatory arrest (Pearl, Schwartz, & others) 2004;77:994-1000\*

Replacing potassium with nicorandil in cold St. Thomas' hospital cardioplegia improves preservation of energetics and function in pig hearts (Steensrud, Nordhaug, & others) 2004;77:1391-7\*

Sodium-hydrogen exchange inhibition attenuates in vivo porcine myocardial stunning (Stevens, Jahania, & others) 2004;77:651-7\*

Therapeutic angiogenesis in chronically ischemic porcine myocardium: comparative effects of bFGF and VEGF (Hughes, Biswas, & others) 2004;77:812-8\*

Viability and histologic structure of porcine valves after cryopreservation (Vazquez, Roman, & others) 2004;77:186-90\*

**Port-accessed lobectomy**

Complete port-accessed lobectomy by the muscle-sparing method (Doki, Ichiki, & others) 2004;77:2230-1, HW

**Positron emission tomography**

Positron emission tomography scanning poorly predicts response to preoperative chemotherapy in non-small cell lung cancer (Port, Kent, & others) 2004;77:254-9\*; Invited Commentary (Van Schil) 2004;77:259, IC

**Postcardiotomy heart failure**

Initial experience with miniature axial flow ventricular assist devices for postcardiotomy heart failure (Jurmann, Siniawski, & others) 2004;77:1642-7\*

**Posterior annular plication**

Posterior annular plication: tricuspid valve repair in Ebstein's anomaly (Friesen, Chen, & others) 2004;77:2167-71\*

**Postintubation tracheobronchial laceration**

Management of postintubation membranous tracheal rupture (Carbognani, Bobbio, & others) 2004;77:406-9\*

**Postoperative period**

Acute postoperative pain in lung transplant recipients (Richard, Girard, & others) 2004;77:1951-5\*; Invited Commentary (Letsou) 2004;77:1955, IC

Early postoperative body temperature and developmental outcome after open heart surgery in infants (Cottrell, Morris, & others) 2004;77:66-71\*; Invited Commentary (Wernovsky) 2004;77:71, IC

Effect of a selection and postoperative care protocol on survival of infants with hypoplastic left heart syndrome (Checchia, Larsen, & others) 2004;77:477-83\*; Invited Commentary (Lamberti) 2004;77:483, IC

Five-year results of 219 consecutive patients treated with extracorporeal membrane oxygenation for refractory postoperative cardiogenic shock (Doll, Kiaii, & others) 2004;77:151-7\*; Invited Commentary (Smedira) 2004;77:157, IC

Health status and social risk correlates of extended length of stay following coronary artery bypass surgery (Johnston, Goss, & others) 2004;77:557-62\*

Respiratory function changes after chemotherapy: an additional risk factor for postoperative respiratory complications? (Leo, Solli, & others) 2004;77:260-5\*; Invited Commentary (Heitmiller) 2004;77:265, IC

**Postoperative period (cont'd)**

Use of Monogen for pediatric postoperative chylothorax (Cormack, Wilson, & others) 2004;77:301-5\*

**Potassium**

Replacing potassium with nicorandil in cold St. Thomas' hospital cardioplegia improves preservation of energetics and function in pig hearts (Steensrud, Nordhaug, & others) 2004;77:1391-7\*

**Practice guidelines**

Cardiac surgery risk modeling for mortality: a review of current practice and suggestions for improvement (Omar, Ambler, & others) 2004;77:2232-7, RV

Society of Thoracic Surgeons practice guidelines (Edwards & Ferguson) 2004;77:1140-1, ED

Society of Thoracic Surgeons practice guideline series: transmyocardial laser revascularization (Bridges, Horvath, & others) 2004;77:1494-1502, RP

**Pregnancy**

Successful treatment of massive pulmonary embolism in the 38th week of pregnancy (Funakoshi, Kato, & others) 2004;77:694-5, CR

**Premature neonates**

Dorsal minithoracotomy for ductus arteriosus clip closure in premature neonates (Vicente, Rodrigues, & others) 2004;77:1105-6, HW

**Pressure distention**

Effect of moderate pressure distention on the human saphenous vein vasomotor function (Okon, Millar, & others) 2004;77:108-15\*; Invited Commentary (Rosenfeldt) 2004;77:114-5, IC

**Primary malignant sternal tumors**

Sternal resection and reconstruction for primary malignant tumors (Chapelier, Missana, & others) 2004;77:1001-7\*; Discussion (Yang, Chapelier, & others) 2004;77:1006-7, DI

**Primary mediastinal hyalinizing spindle cell tumor with giant rosettes**

Primary mediastinal hyalinizing spindle cell tumor with giant rosettes (Galletta, Cesario, & others) 2004;77:2206-9, CR

**Primary spontaneous pneumothorax**

Lung wedge resection improves outcome in stage I primary spontaneous pneumothorax (Czerny, Salat, & others) 2004;77:1802-5\*

**Programmed steroid treatment**

Experience with programmed steroid treatment with thymectomy in nonthymomatous myasthenia gravis (Endo, Yamaguchi, & others) 2004;77:1745-50\*

**Prostacyclin**

Nitric oxide and prostacyclin in ultrasonic vasodilatation of the canine internal mammary artery (Maruo, Hamner, & others) 2004;77:126-32\*

**Prosthesis-patient mismatch**

Late results after mitral valve replacement with bileaflet mechanical prosthesis in children: evaluation of prosthesis-patient mismatch (Masuda, Kado, & others) 2004;77:913-7\*

**Prosthetic valves**

Biological or mechanical prostheses in tricuspid position? A meta-analysis of intra-institutional results (Rizzoli, Vendramin, & others) 2004;77:1607-14\*

Coronary ostial enlargement to prevent stenosis after prosthetic aortic valve replacement (Santini, Pentiricci, & others) 2004;77:1854-6, HW

Creation of a diaphragm patch to facilitate placement of the AbioCor Implantable Replacement Heart (Dowling, Ghaly, & Gray) 2004;77:1849-50, HW

Functional neointima characterization of vascular prostheses in human (Wallis, G'rlar, & others) 2004;77:864-8\*

High-intensity transient signals due to prosthetic valve obstruction: diagnostic and therapeutic implications (Hiratsuka, Fukunaga, & others) 2004;77:1615-21\*

Immediate structural valve deterioration of 27-mm Carpentier-Edwards aortic pericardial bioprosthesis (Fleisher, Lafaro, & Moggio) 2004;77:1443-5, CR

Late results after mitral valve replacement with bileaflet mechanical prosthesis in children: evaluation of prosthesis-patient mismatch (Masuda, Kado, & others) 2004;77:913-7\*

Midterm evaluation of the Sorin Bicarbon heart valve prosthesis: single-center experience (Vitale, Cappabianca, & others) 2004;77:527-31\*

Preclinical assessment of a trileaflet mechanical valve in the mitral position in a calf model (Gregoric, Conger, & others) 2004;77:196-202\*

Usefulness of a multidetector-row computed tomography scanner for detecting pannus formation (Teshima, Hayashida, & others) 2004;77:523-6\*

**Protamine**

Bivalirudin versus heparin and protamine in off-pump coronary artery bypass surgery (Merry, Raudkivi, & others) 2004;77:925-31\*; Invited Commentary (Warkentin) 2004;77:931, IC

**Protein C deficiency**

Early Blalock-Taussig shunt thrombosis in a neonate with protein C deficiency (Tireli & Basaran) 2004;77:2260-1, CP

**Protein-losing enteropathy**

Reversal of protein-losing enteropathy with calcium replacement in a patient after Fontan operation (Kim, Park, & others) 2004;77:1456-7, CR

**Proximal anastomoses**

Initial experience with sutureless proximal anastomoses performed with a mechanical connector leading to clampless off-pump coronary artery bypass surgery (Katariya, Yassin, & others) 2004;77:563-8\*; Discussion (Horvath, Katariya, & others) 2004;77:567-8, DI

**Pseudoaneurysms**

Giant anastomotic pseudoaneurysm complicating aortic xenograft replacement (Kucher, Kipfer, & others) 2004;77:2197-9, CR

Single-stage repair of tetralogy of Fallot with pseudoaneurysm: a unique approach (Sundaraghavan, Khalid, & others) 2004;77:2183-4, CR

Transfemoral control of ruptured aortic pseudoaneurysm at aortic root reoperation (Pettersson, Nore, & Gillinov) 2004;77:311-2\*, CR

**Pulmonary adenocarcinoma**

Peripheral arterial embolism arising from pulmonary adenocarcinoma (Loscertales, Congregado, & others) 2004;77:1426-8, CR

**Pulmonary angiogenesis**

Induction of pulmonary angiogenesis by adenoviral-mediated gene transfer of vascular endothelial growth factor (Lambert, Michel, & others) 2004;77:458-63\*; Invited Commentary (Friebs & del Nido) 2004;77:463, IC



### **Pulmonary arteriovenous fistula**

Resolution of pulmonary arteriovenous fistula by redirection of hepatic venous blood (Ichikawa, Fukushima, & others) 2004;77:1825-7, CR

### **Pulmonary artery**

Late results of the peel operation for replacement of failing extracardiac conduits (Bermudez, Dearani, & others) 2004;77:881-8\*; Discussion (Lamberti & Bermudez) 2004;77:888, DI

Primary chondromatous osteosarcoma of the pulmonary artery (Tsunezuka, Oda, & others) 2004;77:331-4, CR

Successful early surgical recruitment of the congenitally disconnected pulmonary artery (Murphy, Winlaw, & others) 2004;77:29-35\*

### **Pulmonary artery banding**

Management of univentricular heart with systemic ventricular outflow obstruction by pulmonary artery banding and Damus-Kaye-Stansel operation (Miura, Kishimoto, & others) 2004;77:23-8\*

Shallow stitch closure to the rim of the ventricular septal defect after pulmonary artery banding (Sugita, Matsumoto, & others) 2004;77:2259-60, CP; Reply (Fukuda & Kashima) 2004;77:2260

### **Pulmonary artery conduit**

Contegra bovine jugular vein right ventricle to pulmonary artery conduit in Ross procedure (Purohit, Kitchiner, & Pozzi) 2004;77:1707-10\*

Impact of right ventricle to pulmonary artery conduit on outcome of the modified Norwood procedure (Azakie, Martinez, & others) 2004;77:1727-33\*

### **Pulmonary atresia with intact ventricular septum**

Total right ventricular dependent coronary circulation in pulmonary atresia with intact ventricular septum (Lajos, Love, & others) 2004;77:1087-8, CR

### **Pulmonary autograft**

Dissection in a pulmonary autograft (Kincaid, Maloney, & others) 2004;77:707-8, CR

### **Pulmonary embolectomy**

Open pulmonary embolectomy for treatment of major pulmonary embolism (Yalamanchili, Fleisher, & others) 2004;77:819-23\*; Invited Commentary (Karmy-Jones & Chong) 2004;77:823, IC

### **Pulmonary embolism**

Open pulmonary embolectomy for treatment of major pulmonary embolism (Yalamanchili, Fleisher, & others) 2004;77:819-23\*; Invited Commentary (Karmy-Jones & Chong) 2004;77:823, IC

Pulmonary tumor embolism secondary to osteosarcoma (Wong, Aye, & Lee) 2004;77:341, IM

Successful resuscitation of a patient with acute massive pulmonary embolism using emergency embolectomy (Georghiou, Brauner, & others) 2004;77:697-9, CR

Successful treatment of massive pulmonary embolism in the 38th week of pregnancy (Funakoshi, Kato, & others) 2004;77:694-5, CR

### **Pulmonary function**

Preoperative pulmonary function as a prognostic factor for stage I non-small cell lung carcinoma (Iizasa, Suzuki, & others) 2004;77:1896-903\*; Invited Commentary (D'Amico) 2004;77:1902-3, IC

### **Pulmonary grafts**

How long can we preserve the pulmonary graft inside the nonheart-beating donor? (Rega, Neyrinck, & others) 2004;77:438-44\*; Discussion (Egan, Regan, & Smythe) 2004;77:444, DI

### **Pulmonary hypertension**

Effects of sildenafil analogue UK 343-664 on a porcine model of acute pulmonary hypertension (Bonnell, Urdaneta, & others) 2004;77:238-42\*; Discussion (Mavroudis & Bonnell) 2004;77:241-2, DI

New animal model for pulmonary hypertension based on the overexpression of a single gene, angiopoietin-1 (Chu, Sullivan, & others) 2004;77:449-57\*; Invited Commentary (Videm) 2004;77:456-7, IC

Preoperative glucocorticoids decrease pulmonary hypertension in piglets after cardiopulmonary bypass and circulatory arrest (Pearl, Schwartz, & others) 2004;77:994-1000\*

### **Pulmonary inverted Schneiderian papilloma**

Pulmonary inverted Schneiderian papilloma (Margaritora, Cesario, & others) 2004;77:1845-6, CR

### **Pulmonary lobectomy**

Comparison of water seal and suction after pulmonary lobectomy: a prospective, randomized trial (Brunelli, Monteverde, & others) 2004;77:1932-7\*; Invited Commentary (Cerfolio) 2004;77:1937, IC

Predictors of prolonged air leak after pulmonary lobectomy (Brunelli, Monteverde, & others) 2004;77:1205-10\*; Invited Commentary (Wright) 2004;77:1210, IC

Stair climbing test as a predictor of cardiopulmonary complications after pulmonary lobectomy in the elderly (Brunelli, Monteverde, & others) 2004;77:266-70\*

### **Pulmonary metastasectomy**

Prognostic significance of lymph node metastasis found during pulmonary metastasectomy for extrapulmonary carcinoma (Ercan, Nichols, & others) 2004;77:1786-91\*; Discussion (Gaisert, Ercan, & others) 2004;77:1790-1, DI

Pulmonary metastasectomy for uterine cervical cancer: a multivariate analysis (Yamamoto, Yoshikawa, & others) 2004;77:1179-82\*

### **Pulmonary nodules**

Novel technique for localization and excisional biopsy of small or ill-defined pulmonary lesions (Daniel, Altes, & others) 2004;77:1756-62\*; Invited Commentary (Saito, Minamiya, & Ogawa) 2004;77:1762, IC

### **Pulmonary resection**

New tissue-sealing technique using the LigaSure system for nonanatomical pulmonary resection: preliminary results of sutureless and stapleless thoracoscopic surgery (Shigemura, Akashi, & others) 2004;77:1415-9\*; Invited Commentary (Hoover) 2004;77:1419, NT

Nonanatomic prognostic factors in resected nonsmall cell lung carcinoma: the importance of perineural invasion as a new prognostic marker (Sayar, Turna, & others) 2004;77:421-5\*

Optimal distance of malignant negative margin in excision of nonsmall cell lung cancer: a multicenter prospective study (Sawabata, Ohta, & others) 2004;77:415-20\*

Predictors of prolonged air leak after pulmonary lobectomy (Brunelli, Monteverde, & others) 2004;77:1205-10\*; Invited Commentary (Wright) 2004;77:1210, IC

Prospective randomized study evaluating a biodegradable polymeric sealant for sealing intraoperative air leaks that occur during pulmonary resection (Allen, Wood, & others) 2004;77:1792-801\*; Discussion (Cabezas, Allen, & others) 2004;77:1800-1, DI

Pulmonary resection in octogenarians with stage I nonsmall cell lung cancer: a 22-year experience (Brock, Kim, & others) 2004;77:271-7\*

**Pulmonary resection (cont'd)**

Salvage intensive care following initial recovery from pulmonary resection: is it justified? (Pilling, Martin-Ucar, & Waller) 2004;77:1039-44\*

Unilateral VATS wedge pulmonary resections (Rocco, Martin-Ucar, & Passera) 2004;77:726-8, HW

**Pulmonary sarcoma**

Primary chondromatous osteosarcoma of the pulmonary artery (Tsunezuka, Oda, & others) 2004;77:331-4, CR

**Pulmonary sequestration**

Extralobar pulmonary sequestration stimulates posterior neurogenic tumor (Lupinski, Agasthian, & others) 2004;77:2203-4, CR

**Pulmonary stenosis**

Autologous repair of supraaortic pulmonic stenosis (Bacha, Kalimi, & others) 2004;77:734-6, HW

**Pulmonary trunk**

Congenitally corrected transposition: size of the pulmonary trunk and septal malalignment (Hosseinpour, McCarthy, & others) 2004;77:2163-6\*

**Pulmonary valve**

Viability and histologic structure of porcine valves after cryopreservation (Viquez, Román, & others) 2004;77:186-90\*

**Pulmonary vascular obstructive disease**

Late results of palliative atrial switch for transposition, ventricular septal defect, and pulmonary vascular obstructive disease (Burkhart, Dearani, & others) 2004;77:464-9\*; Discussion (Karl, Burkhart, & others) 2004;77:468-9, DI

**Pulmonary vascular resistance**

Low resistance strategy for the perioperative management of the Norwood procedure (Nakano, Kado, & others) 2004;77:908-12\*

**Pulmonary venous stenosis**

Horseshoe lung with left lung hypoplasia and critical pulmonary venous stenosis (Lutterman, Jedeikin, & Cleveland) 2004;77:1085-7, CR

**Pulmonary ventricle**

Late results of the peel operation for replacement of failing extracardiac conduits (Bermudez, Dearani, & others) 2004;77:881-8\*; Discussion (Lamberti & Bermudez) 2004;77:888, DI

**Pulsatile left ventricular assist devices**

Left ventricular pressure and volume unloading during pulsatile versus nonpulsatile left ventricular assist device support (Klotz, Deng, & others) 2004;77:143-50\*; Invited Commentary (Lachapelle) 2004;77:149-50, IC

**Pump prime**

Fresh frozen plasma in the pediatric pump prime: a prospective, randomized trial (McCall, Blackwell, & others) 2004;77:983-7\*; Discussion (Quintessenza, McCall, & Harrison) 2004;77:987, DI

**QRS potentials**

High-frequency QRS potentials as a marker of myocardial dysfunction after cardiac surgery (Matsushita, Sakakibara, & others) 2004;77:1293-7\*

**Quality of life**

Health status, functional abilities, and quality of life after the Mustard or Senning operation (Moons, De Bleser, & others) 2004;77:1359-65\*; Invited Commentary (Van Arsdell) 2004;77:1365, IC

Longitudinal change in quality of life and impact on survival after left ventricular assist device implantation (Grady, Meyer, & others) 2004;77:1321-7\*

Predictors of health-related quality of life after coronary artery bypass surgery (Rumsfeld, Ho, & others) 2004;77:1508-13\*

Robotic techniques improve quality of life in patients undergoing atrial septal defect repair (Morgan, Peacock, & others) 2004;77:1328-33\*

**Radial artery**

Duplex ultrasonography predicts safety of radial artery harvest in the presence of an abnormal Allen test (Abu-Omar, Mussa, & others) 2004;77:116-9\*

Skeletonization versus pedicle preparation of the radial artery with and without the ultrasonic scalpel (Rukosujew, Reichelt, & others) 2004;77:120-5\*

**Radial artery grafts**

Digital blood flow after radial artery harvest for coronary artery bypass grafting (Lee, Chang, & Heo) 2004;77:2071-5\*; Invited Commentary (Allen) 2004;77:2075, IC

Mid-term structural change in the radial artery grafts after coronary artery bypass grafting (Hagiwara, Ito, & others) 2004;77:805-11\*; Invited Commentary (He) 2004;77:810-1, IC

Oxygen pressure measurement during grip exercise reveals exercise intolerance after radial harvest (Manabe, Tabuchi, & others) 2004;77:2066-70\*

Skeletonized radial artery graft with the St. Jude Medical Symmetry Bypass System (aortic connector system) (Watanabe, Takemura, & others) 2004;77:1550-2\*; Invited Commentary (Eckstein) 2004;77:1552, IC

**Radiofrequency ablation**

Cox/Maze III operation versus radiofrequency ablation for the surgical treatment of atrial fibrillation: a comparative study (Chiappini, Martin-Suarez, & others) 2004;77:87-92\*

**Radiofrequency modified Maze procedure**

Long-term results of irrigated radiofrequency modified Maze procedure in 200 patients with concomitant cardiac surgery: six years experience (Sie, Beukema, & others) 2004;77:512-7\*; Discussion (Cameron, Sie, & others) 2004;77:516-7, DI

**Radioisotope lymph node mapping**

Radioisotope lymph node mapping in nonsmall cell lung cancer: can it be applicable for sentinel node biopsy? (Ueda, Suga, & others) 2004;77:426-30\*

**Radiotherapy**

Do we need more trials of postoperative radiotherapy after esophagectomy? (Pramesh, Mistry, & others) 2004;77:1878-9, CP

**Randomized trials**

Comparison of water seal and suction after pulmonary lobectomy: a prospective, randomized trial (Brunelli, Monteverde, & others) 2004;77:1932-7\*; Invited Commentary (Cerfolio) 2004;77:1937, IC

Cost analysis of aprotinin for coronary artery bypass patients: analysis of the randomized trials (Smith, Datta, & others) 2004;77:635-43\*; Invited Commentary (Shore-Lesserson, Reich, & Adams) 2004;77:642-3, IC

Off-pump versus on-pump myocardial revascularization in low-risk patients with one or two vessel disease: perioperative results in a multicenter randomized controlled trial (Gerola, Buffolo, & others) 2004;77:569-73\*

Safety and efficacy of perioperative cell salvage and autotransfusion after coronary artery bypass grafting: a randomized trial (Murphy, Allen, & others) 2004;77:1553-9\*; Discussion (Harrison, Murphy, & Hammon) 2004;77:1559, DI

Transmyocardial revascularization: 5-year follow-up of a prospective, randomized multicenter trial (Allen, Dowling, & others) 2004;77:1228-34\*



### Rapamycin

Local application of rapamycin inhibits neointimal hyperplasia in experimental vein grafts (Schachner, Zou, & others) 2004;77:1580-5\*

### Referrals

Are surgeons ethically obligated to refer patients to other surgeons who achieve better results? (Kouchoukos, Cohn, & Sade) 2004;77:757-60, ET

### Regional ischemia

Effect of regional ischemia on mitral valve annular saddle shape (Gorman, Jackson, & others) 2004;77:544-8\*

### Remodeling

Evaluation of native valve-sparing aortic root reconstruction with direct imaging and reimplantation or remodeling? (Furukawa, Ohteki, & others) 2004;77:1636-41\*

Local myocardial overexpression of growth hormone attenuates postinfarction remodeling and preserves cardiac function (Jayasankar, Bish, & others) 2004;77:2122-9\*; Invited Commentary 2004;77:2129, IC

### Renal failure

On-pump versus off-pump coronary artery bypass grafting: impact on postoperative renal failure requiring renal replacement therapy (Bucerius, Gummert, & others) 2004;77:1250-6\*

### Renal replacement therapy

On-pump versus off-pump coronary artery bypass grafting: impact on postoperative renal failure requiring renal replacement therapy (Bucerius, Gummert, & others) 2004;77:1250-6\*

### Reperfusion

See also Ischemia-reperfusion injury

Atrial natriuretic peptide protects against ischemia-reperfusion injury in the isolated rat heart (Sangawa, Nakanishi, & others) 2004;77:233-7\*

$\beta$ -Chemokine function in experimental lung ischemia-reperfusion injury (Krishnadasan, Farivar, & others) 2004;77:1056-62\*

Neutrophil depletion reduces myocardial reperfusion morbidity (Palatianos, Galentine, & others) 2004;77:956-61\*

Trigger for intercellular adhesion molecule-1 expression in rat lungs transplanted from non-heart-beating donors (Egan, Thomas, & others) 2004;77:1048-55\*; Di (Jones & Schrumpp) 2004;77:1055, DI

### Resection

See also Lung resection; Pulmonary resection

Bronchial carcinoid tumors: nodal status and long-term survival after resection (Cardillo, Sera, & others) 2004;77:1781-85\*

Evolution of surgical outcomes for nonsmall cell lung cancer: time trends in 1,465 consecutive patients undergoing complete resection (Okada, Nishio, & others) 2004;77:1926-31\*; Invited Commentary (Van Schil) 2004;77:1931, IC

Limited resection of non-small cell lung cancer: should brachytherapy be indicated in all cases? (Sawabata, Inoue, & others) 2004;77:1503-4, CP; Reply (Daly & DiPetrillo) 2004;77:1504

Lung wedge resection improves outcome in stage I primary spontaneous pneumothorax (Czerny, Salat, & others) 2004;77:1802-5\*

Minimal invasive endoscopic resection of a giant left atrial appendage aneurysm (Kiaii, Doll, & others) 2004;77:1437-8, CR

Minithoracotomy combined with mechanically stapled bronchial and vascular ligation for anatomical lung resection (Szwerc, Landreneau, & others) 2004;77:1904-10\*; Discussion (Meyers, Szwerc, & others) 2004;77:1909-10, DI

New tissue-sealing technique using the LigaSure system for nonanatomical pulmonary resection: preliminary results of sutureless and stapleless thoracoscopic surgery (Shigemura, Akashi, & others) 2004;77:1415-9\*; Invited Commentary (Hoover) 2004;77:1419, NT

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Pediatric thoracic lymphangiomatosis: is chest wall resection too radical? (Papagiannopoulos, Van Raemdonck, & others) 2004;77:695-7, CR

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Prospective randomized study evaluating a biodegradable polymeric sealant for sealing intraoperative air leaks that occur during pulmonary resection (Allen, Wood, & others) 2004;77:1792-801\*; Discussion (Cabezas, Allen, & others) 2004;77:1800-1, DI

Resection of primary pleural pedunculate hemangiopericytoma (Takahama, Kushibe, & others) 2004;77:2210-3, CR

Salvage intensive care following initial recovery from pulmonary resection: is it justified? (Pilling, Martin-Ucar, & Waller) 2004;77:1039-44\*

Simultaneous lung resection for cancer and myocardial revascularization without cardiopulmonary bypass (off-pump coronary artery bypass grafting) (Dyszkiewicz, Jemielity, & others) 2004;77:1023-7\*

Sternal resection and reconstruction for primary malignant tumors (Chapelier, Missana, & others) 2004;77:1001-7\*; Discussion (Yang, Chapelier, & others) 2004;77:1006-7, DI

Surgical resection of lung metastases from epithelial tumors (Monteiro, Arce, & others) 2004;77:431-7\*

Surgical resection of recurrent bilateral mediastinal liposarcoma through the clamshell approach (Ohta, Murata, & others) 2004;77:1837-9, CR

Uniportal VATS wedge pulmonary resections (Rocco, Martin-Ucar, & Passera) 2004;77:726-8, HW

### Residents

Implementing the ACGME General Competencies in a cardiothoracic surgery residency program using 360-degree feedback (Higgins, Bridges, & others) 2004;77:12-7\*

### Retraction-suspension device

New retraction-suspension device for limited upper sternotomy (Boaron) 2004;77:1107-8, HW

### Retrograde cerebral perfusion

Neurocognitive outcome after retrograde cerebral perfusion (Miyairi, Takamoto, & others) 2004;77:1630-5\*; Invited Commentary (Reich & Uysal) 2004;77:1635, IC

Use of a pH-stat strategy during retrograde cerebral perfusion improves cerebral perfusion and tissue oxygenation (Ye, Li, & others) 2004;77:1664-70\*; Invited Commentary (Ehrlich) 2004;77:1670, IC

### Revascularization

Beating versus arrested heart coronary revascularization: evaluation by cardiac troponin I release (Alwan, Falcoz, & others) 2004;77:2051-5\*

**Revascularization (cont'd)**

- Late myocardial revascularization in patients with tetralogy of Fallot (Coutu, Poirier, & others) 2004;77:1454-5, CR
- Off-pump myocardial revascularization is associated with less incidence of stroke in elderly patients (Athanasios, Al-Ruzzeh, & others) 2004;77:745-53, RV
- Off-pump versus on-pump myocardial revascularization in low-risk patients with one or two vessel disease: perioperative results in a multicenter randomized controlled trial (Gerola, Buffolo, & others) 2004;77:569-73\*
- Optimizing use of the Octopus system for off-pump total arterial myocardial revascularization with the TY graft (Vicol, Nollert, & others) 2004;77:731-3
- Simultaneous lung resection for cancer and myocardial revascularization without cardiopulmonary bypass (off-pump coronary artery bypass grafting) (Dyszkiewicz, Jemielity, & others) 2004;77:1023-7\*
- Smoking-related greater vessel stenoses and bilateral axillary artery revascularization (Baeza, Beyer, & Svensson) 2004;77:1847, IM
- Society of Thoracic Surgeons practice guideline series: transmyocardial laser revascularization (Bridges, Horvath, & others) 2004;77:1494-1502, RP
- Transmyocardial revascularization: 5-year follow-up of a prospective, randomized multicenter trial (Allen, Dowling, & others) 2004;77:1228-34\*

**Review of recent books**

- Advanced Therapy of Cardiac Surgery*, edited by Franco & Verrier (DiSesa) 2004;77:1505-6, BRV
- Thoracic Surgical Oncology: Exposures and Techniques*, edited by Nesbitt & Wind (Kucharczuk) 2004;77:167, BRV

**Rheumatic valve disease**

- Midterm results of aortic valve repair with the pericardial cusp extension technique in rheumatic valve disease (Bozbuga, Erentug, & others) 2004;77:1272-6\*

**Ribs**

- Lateral thoracic expansion for Jeune syndrome: evidence of rib healing and new bone formation (Davis, Long, & others) 2004;77:445-8\*

**Right coronary artery**

- Surgical treatment of right coronary arteries with anomalous origin and slit ostium (Garcia-Rinaldi, Sosa, & others) 2004;77:1525-9\*

**Right gastroepiploic artery**

- Word of caution about the skeletonization of the right gastroepiploic artery (Osawa & Matsuyama) 2004;77:1135, CP; Reply (Asai) 2004;77:1135-6

**Right heart bypass**

- New technique for right heart bypass in congenital heart surgery with autologous lung as oxygenator (Shivaprakasha, Rameshkumar, & others) 2004;77:988-93\*

**Right internal thoracic artery**

- Right internal thoracic artery remodeling 18 years after circumflex system grafting (Puig, Soares, & others) 2004;77:1072-4, CR

**Right subclavian artery aneurysm**

- Successful repair of aberrant right subclavian artery aneurysm combined with bicuspid aortic valve through a median sternotomy (Kono, Kitahara, & others) 2004;77:2196-7, CR

**Right ventricle**

- Fibrous matrix of ventricular myocardium in hypoplastic left heart syndrome: a quantitative and qualitative analysis (Salih, McCarthy, & Ho) 2004;77:36-40\*

Impact of right ventricle to pulmonary artery conduit on outcome of the modified Norwood procedure (Azakie, Martinez, & others) 2004;77:1727-33\*

Medtronic Freestyle valve for right ventricular reconstruction in pediatric Ross operations (Novick, Anic, & others) 2004;77:1711-6\*

Results of arterial switch operation for primary total correction of the Taussig-Bing anomaly (Wetter, Sinzobahamvya, & others) 2004;77:41-7\*; Invited Commentary (Comas) 2004;77:47, IC

Total right ventricular dependent coronary circulation in pulmonary atresia with intact ventricular septum (Lajos, Love, & others) 2004;77:1087-8, CR

**Right ventricular failure**

Is severe right ventricular failure in left ventricular assist devices recipients a risk factor for unsuccessful bridging to transplant and post-transplant mortality (Morgan, John, & others) 2004;77:859-63\*

**Right ventricular fistula**

Left ventricular-coronary sinus/right ventricular fistula late after mitral valve replacement (Almodovar, Rofilanchas, & others) 2004;77:1441-3, CR

**Right ventricular outflow tract reconstruction**

Right ventricular outflow tract reconstruction with the Contegra bovine jugular vein conduit: a word of caution (Tiete, Sachweh, & others) 2004;77:2151-6\*

**Risk assessment and stratification**

Acute type B aortic dissection in elderly patients: clinical features, outcomes, and simple risk stratification rule (Mehta, Bossone, & others) 2004;77:1622-9\*; Invited Commentary (Gott) 2004;77:1629, IC

Cardiac surgery risk modeling for mortality: a review of current practice and suggestions for improvement (Omar, Ambler, & others) 2004;77:2232-7, RV

Comparison of short-term mortality risk factors for valve replacement versus coronary artery bypass graft surgery (Gardner, Grunwald, & others) 2004;77:549-56\*

Early mortality in coronary bypass surgery: the EuroSCORE versus the Society of Thoracic Surgeons risk algorithm (Nilsson, Algotsson, & others) 2004;77:1235-40\*; Invited Commentary (Gold) 2004;77:1239-40, IC

High risk coronary artery bypass patient: incidence, surgical strategies, and results (Gaudino, Gliaca, & others) 2004;77:574-80\*; Invited Commentary (Wolner, Zimpfer, & Grimm) 2004;77:580, IC

Indicators of atrial fibrillation risk in cardiac surgery patients on prophylactic amiodarone (Kalus, White, & others) 2004;77:1288-92\*

Is a bicuspid aortic valve a risk factor for adverse outcome after an autograft procedure? (Bogers, Kappetein, & others) 2004;77:1998-2003\*

Mortality on the waiting list for coronary artery bypass grafting: incidence and risk factors (Rexius, Brandrup-Wognsen, & others) 2004;77:769-75\*; Invited Commentary (Novick) 2004;77:774-5, IC

Off-pump versus on-pump myocardial revascularization in low-risk patients with one or two vessel disease: perioperative results in a multicenter randomized controlled trial (Gerola, Buffolo, & others) 2004;77:569-73\*

Risk factors for mediastinitis after cardiac surgery (Abboud, Wey, & Baltar) 2004;77:676-83\*

Usefulness of preoperative intraaortic balloon pump therapy during off-pump coronary artery bypass grafting in high-risk patients (Suzuki, Okabe, & others) 2004;77:2056-60\*; Invited Commentary (Christenson) 2004;77:2059-60, IC



**Robotic skeletonizing**

Robotic skeletonizing of the internal thoracic artery: is it safe? (Bolotin, Scott, & others) 2004;77:1262-5\*

**Robotic techniques**

Minimally invasive mitral valve repair using the da Vinci robotic system (Tatooles, Pappas, & others) 2004;77:1978-84\*; Discussion (Chitwood & Tatooles) 2004;77:1982-3, DI

Robotically assisted left ventricular epicardial lead implantation for biventricular pacing: the posterior approach (Derose, Belsley, & others) 2004;77:1472-4, HW

Robotic techniques improve quality of life in patients undergoing atrial septal defect repair (Morgan, Peacock, & others) 2004;77:1328-33\*

**Ross-Konno procedure**

Ross-Konno procedure in neonates: report on three patients (Lacour-Gayet, Sauer, & others) 2004;77:2223-5, HW

**Ross procedure**

Contegra bovine jugular vein right ventricle to pulmonary artery conduit in Ross procedure (Purohit, Kitchiner, & Pozzi) 2004;77:1707-10\*

Medtronic Freestyle valve for right ventricular reconstruction in pediatric Ross operations (Novick, Anic, & others) 2004;77:1711-6\*

**Salvage intensive care**

Salvage intensive care following initial recovery from pulmonary resection: is it justified? (Pilling, Martin-Ucar, & Waller) 2004;77:1039-44\*

**Saphenous vein**

Effect of moderate pressure distention on the human saphenous vein vasomotor function (Okon, Millar, & others) 2004;77:108-15\*; Invited Commentary (Rosenfeldt) 2004;77:114-5, IC

Preservation of saphenous vein endothelium (Chaux) 2004;77:1505, CP

**Saphenous vein graft**

Initial experience with sutureless proximal anastomoses performed with a mechanical connector leading to clampless off-pump coronary artery bypass surgery (Katariya, Yassin, & others) 2004;77:563-8\*; Discussion (Horvath, Katariya, & others) 2004;77:567-8, DI

**Saphenous vein graft aneurysms**

Man with saphenous vein graft aneurysms after bypass surgery (Williams, Rampersaud, & Wolfe) 2004;77:1815-7, CR

**Schneiderian papilloma**

Pulmonary inverted Schneiderian papilloma (Margaritora, Cesario, & others) 2004;77:1845-6, CR

**Screening**

Long-term results of operation for 420 patients with early squamous cell esophageal carcinoma discovered by screening (Wang, Jiao, & others) 2004;77:1740-4\*

**Sealant**

Prospective randomized study evaluating a biodegradable polymeric sealant for sealing intraoperative air leaks that occur during pulmonary resection (Allen, Wood, & others) 2004;77:1792-801\*; Discussion (Cabezas, Allen, & others) 2004;77:1800-1, DI

**Selective cerebral perfusion**

Technical advances in total aortic arch replacement (Strauch, Spielvogel, & others) 2004;77:581-90\*; Discussion (Kazui, Vogel, & others) 2004;77:589-90, DI

**Semirigid partial annuloplasty band**

Semirigid partial annuloplasty band allows dynamic mitral annular motion and minimizes valvular gradients: an echocardiographic study (Sharony, Saunders, & others) 2004;77:518-22\*; Invited Commentary (Gorman & Gorman) 2004;77:522, IC

**Senning operation**

Health status, functional abilities, and quality of life after the Mustard or Senning operation (Moons, De Bleser, & others) 2004;77:1359-65\*; Invited Commentary (Van Arsdell) 2004;77:1365, IC

**Sentinel lymph node biopsy**

Radioisotope lymph node mapping in nonsmall cell lung cancer: can it be applicable for sentinel node biopsy? (Ueda, Suga, & others) 2004;77:426-30\*

**Sentinel lymph nodes**

Preoperative imaging of the lung sentinel lymphatic basin with computed tomographic lymphography: a preliminary study (Ueda, Suga, & others) 2004;77:1033-8\*; Invited Commentary (Odell) 2004;77:1037-8, IC

**Septal reshaping**

Septal reshaping for exclusion of anteroseptal dyskinetic or akinetic areas (Calafiore, Di Mauro, & others) 2004;77:2115-21\*

**Shallow stitch closure**

Shallow stitch closure to the rim of the ventricular septal defect after pulmonary artery banding (Sugita, Matsumoto, & others) 2004;77:2259-60, CP; Reply (Fukuda & Kashima) 2004;77:2260

**Shunts**

Early Blalock-Taussig shunt thrombosis in a neonate with protein C deficiency (Tireli & Basaran) 2004;77:2260-1, CP  
Effects of intracoronary shunts on coronary endothelial coating in the human beating heart (Hangler, Pfaller, & others) 2004;77:776-80\*

**Sigmoid diverticulum**

Empyema resulting from a true colopleural fistula complicating a perforated sigmoid diverticulum (Papagiannopoulos, Gialvalis, & others) 2004;77:324-6, CR

**Sildenafil**

Effects of sildenafil analogue UK 343-664 on a porcine model of acute pulmonary hypertension (Bonnell, Urdaneta, & others) 2004;77:238-42\*; Discussion (Mavroudis & Bonnell) 2004;77:241-2, DI

**Single ventricle**

Improved early results with the Fontan operation in adults with functional single ventricle (Mott, Feltes, & others) 2004;77:1334-40\*

**Sinus of Valsalva**

Coronary artery obstruction due to membranous ridge of the right sinus Valsalva associated with tetralogy of Fallot: syncope mimics anoxic spell (Shiraishi, Yamagishi, & others) 2004;77:321-2, CR

**Sinus rhythm**

Early and late arrhythmias in patients in preoperative sinus rhythm after superior septal approach (Misawa & Kaminishi) 2004;77:2259, CP; Reply (Gaudino & Possati) 2004;77:2259

**Skeletonization**

Robotic skeletonizing of the internal thoracic artery: is it safe? (Bolotin, Scott, & others) 2004;77:1262-5\*

Should the internal thoracic artery be skeletonized? (Athanasios, Crossman, & others) 2004;77:2238-46, RV

Skeletonization does not influence internal thoracic artery innervation (Gaudino, Toesca, & others) 2004;77:1257-61\*

**Skeletonization (cont'd)**

Skeletonization of gastroepiploic artery graft in off-pump coronary artery bypass grafting: early clinical and angiographic assessment (Kamiya, Watanabe, & others) 2004;77:2046-50\*

Skeletonization versus pedicle preparation of the radial artery with and without the ultrasonic scalpel (Rukosujew, Reichelt, & others) 2004;77:120-5\*

Skeletonized radial artery graft with the St. Jude Medical Symmetry Bypass System (aortic connector system) (Watanabe, Takemura, & others) 2004;77:1550-2\*; Invited Commentary (Eckstein) 2004;77:1552, IC

Word of caution about the skeletonization of the right gastroepiploic artery (Osawa & Matsuyama) 2004;77:1135, CP; Reply (Asai) 2004;77:1135-6

**Sleeve lobectomy**

Sleeve lobectomy versus pneumonectomy for lung cancer: a comparative analysis of survival and sites of recurrences (Deslauriers, Gregoire, & others) 2004;77:1152-6\*; Discussion (Altorki, Deslauriers, & Vigneswaran) 2004;77:1156, DI

**Sleeve pneumonectomy**

Plasmapheresis as effective treatment for thyrotoxic storm after sleeve pneumonectomy (Petry, Van Schil, & others) 2004;77:1839-41, CR

**Smoking**

Smoking-related greater vessel stenoses and bilateral axillary artery revascularization (Baeza, Beyer, & Svensson) 2004;77:1847, IM

**Society of Thoracic Surgeons**

Early mortality in coronary bypass surgery: the EuroSCORE versus the Society of Thoracic Surgeons risk algorithm (Nilsson, Algotsson, & others) 2004;77:1235-40\*; Invited Commentary (Gold) 2004;77:1239-40, IC

Mentoring clinical trials in thoracic and cardiovascular surgery: a new role for the Society of Thoracic Surgeons (Gaissert, Casale, & others) 2004;77:1874-5, RP

Society of Thoracic Surgeons practice guidelines (Edwards & Ferguson) 2004;77:1140-1, ED

Society of Thoracic Surgeons practice guideline series: transmyocardial laser revascularization (Bridges, Horvath, & others) 2004;77:1494-1502, RP

Validity of The Society of Thoracic Surgeons National Adult Cardiac Surgery Database (Welke, Ferguson, & others) 2004;77:1137-9, ED

**Sodium-hydrogen exchange**

Effect of the Na<sup>+</sup>/H<sup>+</sup> exchange inhibitor eniporide on cardiac performance and myocardial high energy phosphates in pigs subjected to cardioplegic arrest (Klass, Fischer, & others) 2004;77:658-63\*

Sodium-hydrogen exchange inhibition attenuates in vivo porcine myocardial stunning (Stevens, Jahania, & others) 2004;77:651-7\*

**Sodium-hydrogen exchanger**

Experimental studies on myocardial protection with intermittent cross-clamp fibrillation: additive effect of the sodium-hydrogen exchanger inhibitor, cariporide (Fujii, Avkiran, & Chambers) 2004;77:1398-407\*

**Solitary eosinophilic granuloma**

Solitary eosinophilic granuloma of sternum (Eroglu, Kurkcuoglu, & others) 2004;77:329-31, CR

**Solitary tracheal papilloma**

Human papillomavirus and squamous cell carcinoma in a solitary tracheal papilloma (Lam, Talbot, & others) 2004;77:2201-2, CR

**Sonoclot analysis**

Sonoclot analysis in cardiac surgery in dialysis-dependent patients (Shibata, Sasaki, & others) 2004;77:220-5\*

**Sonomicrometry array localization**

Effect of regional ischemia on mitral valve annular saddle shape (Gorman, Jackson, & others) 2004;77:544-8\*

**Sorin Bicarbon heart valve prosthesis**

Midterm evaluation of the Sorin Bicarbon heart valve prosthesis: single-center experience (Vitale, Cappabianca, & others) 2004;77:527-31\*

**Sotalol**

Preoperative use of sotalol versus atenolol for atrial fibrillation after cardiac surgery (Sanjuan, Blasco, & others) 2004;77:838-43\*

**Spindle cell tumor**

Primary mediastinal hyalinizing spindle cell tumor with giant rosettes (Galetta, Cesario, & others) 2004;77:2206-9, CR

**Spontaneous pneumothorax**

Lung wedge resection improves outcome in stage I primary spontaneous pneumothorax (Czerny, Salat, & others) 2004;77:1802-5\*

**Squamous cell carcinoma**

Human papillomavirus and squamous cell carcinoma in a solitary tracheal papilloma (Lam, Talbot, & others) 2004;77:2201-2, CR

Long-term results of operation for 420 patients with early squamous cell esophageal carcinoma discovered by screening (Wang, Jiao, & others) 2004;77:1740-4\*

**St. Jude Medical Symmetry Bypass System**

Skeletonized radial artery graft with the St. Jude Medical Symmetry Bypass System (aortic connector system) (Watanabe, Takemura, & others) 2004;77:1550-2\*; Invited Commentary (Eckstein) 2004;77:1552, IC

**Stab wounds**

Repair of stab-wound laceration of the aortic arch using deep hypothermia and circulatory arrest (Seitelberger, Bialy, & Rajek) 2004;77:703-4, CR

**Stair climbing test**

Stair climbing test as a predictor of cardiopulmonary complications after pulmonary lobectomy in the elderly (Brunelli, Monteverde, & others) 2004;77:266-70\*

**Stenosis**

Autologous repair of supraaortic valvar pulmonic stenosis (Bacha, Kalimi, & others) 2004;77:734-6, HW

Coronary ostial enlargement to prevent stenosis after prosthetic aortic valve replacement (Santini, Pentiricci, & others) 2004;77:1854-6, HW

Idiopathic tracheal and bronchial stenosis in two pediatric patients (Beddow, Rice, & others) 2004;77:1829-32, CR

Measurement of tracheal size in children with congenital heart disease by computed tomography (Chen, Shih, & others) 2004;77:1216-21\*

Role of oral bacterial flora in calcific aortic stenosis: an animal model (Cohen, Malave, & others) 2004;77:537-43\*

Role of transvalvular gradient in outcome from valve replacement for aortic stenosis (Weerasinghe, Yusuf, & others) 2004;77:1266-71\*

Smoking-related greater vessel stenoses and bilateral axillary artery revascularization (Baeza, Beyer, & Svensson) 2004;77:1847, IM

Stenosed mammary artery graft depicted by multidetector computed tomography (Song, Ishida, & others) 2004;77:2221, IM



- Superimposed spontaneous esophageal perforation in congenital esophageal stenosis (Gonzalez, Craft, & others) 2004;77:1098-1100, CR
- Stents and stenting**
- Coronary endarterectomy and stent removal after iatrogenic perforation (Fukui, Takanashi, & others) 2004;77:708-11, CR
- Endovascular stent grafting for rupture of a thoracoabdominal aortic aneurysm after replacement of the entire aorta (Hachiro, Harada, & others) 2004;77:1101, IM
- Stent-graft repair of penetrating atherosclerotic ulcers in the descending thoracic aorta: mid-term results (Demers, Miller, & others) 2004;77:81-6\*
- Stenting of the mainstem bronchus in children: a word of caution (Wells, Hussain, & Wood) 2004;77:1420-2, CR
- Sternal closure**
- Biomechanical study of a poly-L-lactide (PLLA) sternal pin in sternal closure after cardiothoracic surgery (Saito, Iguchi, & others) 2004;77:684-7\*
- Sternal dehiscence**
- Modified parasternal wire technique for prevention and treatment of sternal dehiscence (Sharma, Puri, & others) 2004;77:210-3\*
- Sternal reinforcement**
- Lower sternal reinforcement to improve median sternotomy closure (Losanoff, Richman, & Jones) 2004;77:2261, CP; Reply (Dasika & Magovern) 2004;77:2261-2
- Sternal resection**
- Sternal resection and reconstruction for primary malignant tumors (Chapelier, Missana, & others) 2004;77:1001-7\*; Discussion (Yang, Chapelier, & others) 2004;77:1006-7, DI
- Sternal tumors**
- Sternal resection and reconstruction for primary malignant tumors (Chapelier, Missana, & others) 2004;77:1001-7\*; Discussion (Yang, Chapelier, & others) 2004;77:1006-7, DI
- Sternotomy**
- Ascending aortic aneurysm, coarctation of the aortic isthmus and hypoplastic aortic arch: simultaneous treatment through sternotomy (Carrel & Berdat) 2004;77:1463, IM
- Biomechanical comparison of median sternotomy closures (Losanoff, Collier, & others) 2004;77:203-9\*
- Implantation of MicroMed DeBakey VAD through left thoracotomy after previous median sternotomy operations (Hetzer, Potapov, & others) 2004;77:347-50, HW
- Lower sternal reinforcement to improve median sternotomy closure (Losanoff, Richman, & Jones) 2004;77:2261, CP; Reply (Dasika & Magovern) 2004;77:2261-2
- Modified parasternal wire technique for prevention and treatment of sternal dehiscence (Sharma, Puri, & others) 2004;77:210-3\*
- New retraction-suspension device for limited upper sternotomy (Boaron) 2004;77:1107-8, HW
- Successful repair of aberrant right subclavian artery aneurysm combined with bicuspid aortic valve through a median sternotomy (Kono, Kitahara, & others) 2004;77:2196-7, CR
- Superficial wound dehiscence after median sternotomy: surgical treatment versus secondary wound healing (Zeitani, Bertoldo, & others) 2004;77:672-5\*
- T-modification of sternotomy to accommodate a low-lying tracheostomy (Woodwisd, Zwischenberger, & others) 2004;77:1109, HW
- Sternum**
- Solitary eosinophilic granuloma of sternum (Eroglu, Kurkcuoglu, & others) 2004;77:329-31, CR
- Video-assisted extended thymectomy in patients with thymoma by lifting the sternum: is it safe? (Aubert, Chaffanjon, & Brichon) 2004;77:1878, CP; Reply (TGakeo) 2004;77:1878
- Stomach**
- Traumatic intrapericardial herniation of the stomach (Castedo, Varela, & others) 2004;77:340, IM
- Stroke**
- Off-pump myocardial revascularization is associated with less incidence of stroke in elderly patients (Athanasίου, Al-Ruzzeh, & others) 2004;77:745-53, RV
- Postoperative atrial fibrillation is a major cause of stroke after on-pump coronary artery bypass surgery (Lahtinen, Biancari, & others) 2004;77:1241-4\*
- Reduced strokes in the elderly: the benefits of untouched aorta off-pump coronary surgery (Lev-Ran, Loberman, & others) 2004;77:102-7\*
- Sudden death**
- High systemic vascular resistance and sudden cardiovascular collapse in recovering Norwood patients (Wright, Crowley, & others) 2004;77:48-52\*
- Superior sulcus**
- Ultrasonic dissectors for neurogenic tumors of the superior sulcus (Gossot) 2004;77:2263, CP; Reply (Pons) 2004;77:2264, CR
- Superior vena cava**
- Case of thymoma protruding into the superior vena cava through the thymic vein (Terada, Ono, & others) 2004;77:1088-90, CR
- Supravalvar pulmonic stenosis**
- Autologous repair of supravalvar pulmonic stenosis (Bacha, Kalimi, & others) 2004;77:734-6, HW
- Surgeons**
- Are surgeons ethically obligated to refer patients to other surgeons who achieve better results? (Kouchoukos, Cohn, & Sade) 2004;77:757-60, ET
- Surgeon's work in transition: should surgeons spend more time outside the hospital? (Dickey, Ungerleider, & others) 2004;77:1145-51, ET
- Surgery**
- See also Cardiac surgery; Endovascular surgery; Video-assisted thoracoscopic surgery
- Biomechanical study of a poly-L-lactide (PLLA) sternal pin in sternal closure after cardiothoracic surgery (Saito, Iguchi, & others) 2004;77:684-7\*
- Clinical outcome after cardiac operations in patients with cirrhosis (Hayashida, Shoujima, & others) 2004;77:500-5\*
- Comparison of short-term mortality risk factors for valve replacement versus coronary artery bypass graft surgery (Gardner, Grunwald, & others) 2004;77:549-56\*
- Coronary surgery in patients with peripheral vascular disease: effect of avoiding cardiopulmonary bypass (Karthik, Mulsleh, & others) 2004;77:1245-9\*
- Effects of hypertonic saline-dextran solution in cardiac valve surgery with cardiopulmonary bypass (Bueno, Resende, & others) 2004;77:604-11\*; Invited Commentary (Cavarocchi) 2004;77:611, IC
- Elective surgery for fibroelastoma of the aortic valve (Koolbergen, Voigt, & others) 2004;77:725, IM
- Evolution of surgical outcomes for nonsmall cell lung cancer: time trends in 1,465 consecutive patients undergoing complete resection (Okada, Nishio, & others) 2004;77:1926-31\*; Invited Commentary (Van Schil) 2004;77:1931, IC

**Surgery (cont'd)**

- Implementing the ACGME General Competencies in a cardiothoracic surgery residency program using 360-degree feedback (Higgins, Bridges, & others) 2004;77:12-7\*
- Is echocardiography alone diagnostic of a cardiac mass before surgical intervention? (Wu, Tseng, & Chiu) 2004;77:2222, IM
- Large cell neuroendocrine carcinoma of the lung: an aggressive disease potentially treatable with surgery (Doddoli, Barlesi, & others) 2004;77:1168-72\*
- Long-term results of irrigated radiofrequency modified Maze procedure in 200 patients with concomitant cardiac surgery: six years experience (Sie, Beukema, & others) 2004;77:512-7\*; Discussion (Cameron, Sie, & others) 2004;77:516-7, DI
- Metachronous gastric carcinoma from a gastric tube after radical surgery for esophageal carcinoma (Okamoto, Ozawa, & others) 2004;77:1189-92\*
- Methylene blue reduces mortality and morbidity in vasoplegic patients after cardiac surgery (Levin, Degrange, & others) 2004;77:496-9\*
- Mortality on the waiting list for coronary artery bypass grafting: incidence and risk factors (Rexius, Brandrup-Wognsen, & others) 2004;77:769-75\*; Invited Commentary (Novick) 2004;77:774-5, IC
- Multivariable prediction of in-hospital mortality associated with aortic and mitral valve surgery in northern New England (Nowicki, Birkmeyer, & others) 2004;77:1966-77\*
- Opposite trends in coronary artery and valve surgery in a large multisurgeon practice, 1979-1999 (Northrup, Emery, & others) 2004;77:488-95\*
- Predictors of mortality at initiation of peritoneal dialysis in children after cardiac surgery (Boigner, Brannath, & others) 2004;77:61-5\*
- Preoperative use of sotalol versus atenolol for atrial fibrillation after cardiac surgery (Sanjuan, Blasco, & others) 2004;77:838-43\*
- Randomized study of surgery for patients with permanent atrial fibrillation as a result of mitral valve disease (de Lima, Kalil, & others) 2004;77:2089-95\*; Invited Commentary (Fieguth) 2004;77:2094-5, IC
- Risk factors for mediastinitis after cardiac surgery (Abboud, Wey, & Baltar) 2004;77:676-83\*
- Simplified technique for closing thoracostomy incisions (Vasseur) 2004;77:1467-8, HW
- Successful early surgical recruitment of the congenitally disconnected pulmonary artery (Murphy, Winlaw, & others) 2004;77:29-35\*
- Successful salvage of inferior vena cava rupture during reoperative repair for ascending aortic aneurysm (Chen & Hsieh) 2004;77:715-8, CR
- Surgery for aortic root aneurysm in children: a 21-year experience in 50 patients (Cattaneo, Bethea, & others) 2004;77:168-76\*; Discussion (Miller, Kouchoukos, & others) 2004;77:175-6, DI
- Surgical management of aortopulmonary window and associated lesions (Erez, Dagan, & others) 2004;77:484-7\*
- Surgical management of leiomyosarcoma of the mediastinum (Conner, Fink, & others) 2004;77:334-6, CR
- Surgical patch closure of atrial septal defects (Hopkins, Bert, & others) 2004;77:2144-50\*; Invited Commentary 2004;77:2149-50, IC
- Surgical treatment of five patients with aortobronchial fistula in the aortic arch (Nishizawa, Matsumoto, & others) 2004;77:1821-3, CR
- Thoracic aortic emergencies: impact of endovascular surgery (Iannelli, Piscione, & others) 2004;77:591-6\*
- Surgical length of stay**  
Health status and social risk correlates of extended length of stay following coronary artery bypass surgery (Johnston, Goss, & others) 2004;77:557-62\*
- sVCAM-1**  
Markers for endothelial activation during open heart surgery (Eikemo, Sellevold, & Videm) 2004;77:214-9\*
- Symmetry Aortic Connector**  
Fatal complications after use of the Symmetry Aortic Connector in coronary artery bypass surgery (Lahtinen, Biancari, & others) 2004;77:1817-9, CR  
Initial experience with sutureless proximal anastomoses performed with a mechanical connector leading to clampless off-pump coronary artery bypass surgery (Katariya, Yassin, & others) 2004;77:563-8\*; Discussion (Horvath, Katariya, & others) 2004;77:567-8, DI
- Sympathectomy**  
Thoracoscopic sympathectomy for hyperhidrosis: indications and results (Doolabh, Horswell, & others) 2004;77:410-4\*; Discussion (Saldarriaga, Doolabh, & others) 2004;77:414, DI
- Syncope**  
Coronary artery obstruction due to membranous ridge of the right sinus Valsalva associated with tetralogy of Fallot: syncope mimics anoxic spell (Shiraishi, Yamagishi, & others) 2004;77:321-2, CR
- Systemic vascular resistance**  
High systemic vascular resistance and sudden cardiovascular collapse in recovering Norwood patients (Wright, Crowley, & others) 2004;77:48-52\*  
Low resistance strategy for the perioperative management of the Norwood procedure (Nakano, Kado, & others) 2004;77:908-12\*
- Tachycardia**  
New-onset sustained ventricular tachycardia and fibrillation early after cardiac operations (Yeung-Lai-Wah, Qi, & others) 2004;77:2083-8\*  
Ventricular tachycardia associated with transmyocardial migration of an epicardial pacing wire (Meier, Tamirisa, & Eitzman) 2004;77:1077-9, CR
- Takayasu's disease**  
Left main stem patch plasty and aortic root homograft in Takayasu's disease (Matteucci, Iascone, & others) 2004;77:314-7, CR  
Off-pump coronary artery bypass in patients with Takayasu's disease (Yamaguchi, Endo, & others) 2004;77:2186-8, CR
- Tau protein**  
Tau protein in the cerebrospinal fluid is a marker of brain injury after aortic surgery (Shiia, Kunihara, & others) 2004;77:2034-8\*
- Taussig-Bing anomaly**  
Results of arterial switch operation for primary total correction of the Taussig-Bing anomaly (Wetter, Sinzobahamvya, & others) 2004;77:41-7\*; Invited Commentary (Comas) 2004;77:47, IC
- Teflon felt**  
Endoventricular pocket repair of type I myocardial rupture after mitral valve replacement: a new technique using pericardial patch, teflon felt, and bioglue (Masroor, Schor, & others) 2004;77:1439-41, CR



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- Coronary artery obstruction due to membranous ridge of the right sinus Valsalva associated with tetralogy of Fallot: syncope mimics anoxic spell (Shiraishi, Yamagishi, & others) 2004;77:321-2, CR
- Late myocardial revascularization in patients with tetralogy of Fallot (Coutu, Poirier, & others) 2004;77:1454-5, CR
- Lung perfusion with protective solution relieves lung injury in corrections of tetralogy of Fallot (Wei, Liu, & others) 2004;77:918-24\*
- Single-stage repair of tetralogy of Fallot with pseudoaneurysm: a unique approach (Sundaraghavan, Khalid, & others) 2004;77:2183-4, CR
- Ventricular septal defect closure in tetralogy of Fallot: the aortic rule (Wauthy, Demanet, & others) 2004;77:2228-9, HW

### **Therapeutic angiogenesis**

- Therapeutic angiogenesis in chronically ischemic porcine myocardium: comparative effects of bFGF and VEGF (Hughes, Biswas, & others) 2004;77:812-8\*

### **Thermochemotherapy**

- Pleural perfusion thermo-chemotherapy under VATS: a new less invasive modality for advanced lung cancer with pleural spread (Shigemura, Akashi, & others) 2004;77:1016-22\*; Invited Commentary (Zwischenberger & Verrees) 2004;77:1021-2, IC

### **Thoracic aorta**

- Stent-graft repair of penetrating atherosclerotic ulcers in the descending thoracic aorta: mid-term results (Demers, Miller, & others) 2004;77:81-6\*

- Thoracic aortic emergencies: impact of endovascular surgery (Iannelli, Piscione, & others) 2004;77:591-6\*

### **Thoracic aortic aneurysm**

- Left heart bypass during descending thoracic aortic aneurysm repair does not reduce the incidence of paraplegia (Coselli, LeMaire, & others) 2004;77:1298-1303\*; Discussion (Sundt, Coselli, & others) 2004;77:1303, DI

- Simplified thoracic aortic aneurysm repair (Pocar, Fundaro, & Donatelli) 2004;77:2199-2200, CR

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- Pediatric thoracic lymphangiomatosis: is chest wall resection too radical? (Papagiannopoulos, Van Raemdonck, & others) 2004;77:695-7, CR

### **Thoracic muscle**

- Simple technique for maximal thoracic muscle harvest (Marshall, Kaiser, & Kucharczuk) 2004;77:1465-6, HW

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- Thoracoabdominal aortic aneurysm repair through redo left-sided thoracotomy (Kawaharada, Morishita, & others) 2004;77:1304-8\*

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- Extrapleural thoracoscopic excision of a mediastinal bronchogenic cyst in a patient with dense pleural adhesions (Sato, Watanabe, & others) 2004;77:1091-3, CR

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### **Thoracostomy**

- Simplified technique for closing thoracostomy incisions (Vasseur) 2004;77:1467-8, HW

### **Thoracotomy**

- Blunt chest trauma and tube thoracotomy (Tekeli & Akgun) 2004;77:754-5; Reply (Janson, Harris, & others) 2004;77:755, CP

- Intermittent infusion of 0.25% bupivacaine through an intrapleural catheter for post-thoracotomy pain relief (Tetik, Islamoglu, & others) 2004;77:284-8\*

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- Sealing of the mediastinum with a local hemostyptic agent reduces chest tube duration after complete mediastinal lymph node dissection for stage I and II non-small cell lung carcinoma (Czerny, Fleck, & others) 2004;77:1028-32\*

### **Thrombosis**

- Early Blalock-Taussig shunt thrombosis in a neonate with protein C deficiency (Tireli & Basaran) 2004;77:2260-1, CP

- Thrombosis of aortic valve homograft associated with lupus anticoagulant antibodies (Unger, Plein, & others) 2004;77:312-4, CR

### **Thrombus**

- Lethal thrombus in the carotid artery during operation for acute aortic dissection with cerebral malperfusion (Imanaka, Nishimura, & others) 2004;77:1448-9, CR

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- Experience with programmed steroid treatment with thymectomy in nonthymomatous myasthenia gravis (Endo, Yamaguchi, & others) 2004;77:1745-50\*

- Video-assisted extended thymectomy in patients with thymoma by lifting the sternum: is it safe? (Aubert, Chaffanjon, & Brichon) 2004;77:1878, CP; Reply (TGakeo) 2004;77:1878

### **Thymic tumors**

- Thymic tumors (Detterbeck & Parsons) 2004;77:1860-9, RV

### **Thymic vein**

- Case of thymoma protruding into the superior vena cava through the thymic vein (Terada, Ono, & others) 2004;77:1088-90, CR

### **Thymoma**

- Case of thymoma protruding into the superior vena cava through the thymic vein (Terada, Ono, & others) 2004;77:1088-90, CR

- Noninvasive thymoma in the middle mediastinum (Kanzaki, Oyama, & others) 2004;77:2209-10, CR

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**Thymoma (cont'd)**

WHO histologic classification is a prognostic indicator in thymoma (Kondo, Yoshizawa, & others) 2004;77:1183-8\*

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Plasmapheresis as effective treatment for thyrototoxic storm after sleeve pneumonectomy (Petry, Van Schil, & others) 2004;77:1839-41, CR

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Novel approach to the management of tracheoinnominate artery fistula (Gasparri, Nicolosi, & Almassi) 2004;77:1424-6, CR

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Emergency percutaneous tracheostomy in trauma patients: an early experience (Ben-Nun, Altman, & Best) 2004;77:1045-7\*

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**Trauma**

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**Tricuspid valve replacement**

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**Trileaflet mechanical valve**

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**Truncus arteriosus**

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**Ultrasonic dissectors**

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Video-assisted extended thymectomy in patients with thymoma by lifting the sternum: is it safe? (Aubert, Chaffanjon, & Brichon) 2004;77:1878, CP; Reply (TGakeo) 2004;77:1878

**Video-assisted thoracic surgery**

Extrapleural thorascopic excision of a mediastinal bronchogenic cyst in a patient with dense pleural adhesions (Sato, Watanabe, & others) 2004;77:1091-3, CR

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Superficial wound dehiscence after median sternotomy: surgical treatment versus secondary wound healing (Zeitani, Bertoldo, & others) 2004;77:672-5\*

Use of a lateral stabilizer increases the incidence of wound trouble following the Nuss procedure (Watanabe, Watanabe, & others) 2004;77:296-300\*

**Xenografts**

Giant anastomotic pseudoaneurysm complicating aortic xenograft replacement (Kucher, Kipfer, & others) 2004;77:2197-9, CR

**Xenotransplantation**

Immunosuppression and xenotransplantation of cells for cardiac repair (Haider, Ye, & others) 2004;77:1133, CP; Reply (Xiao, Min, & Morgan) 2004;77:1133-4

Immunosuppression and xenotransplantation of cells for cardiac repair (Xiao, Min, & Morgan) 2004;77:737-44, RV